JOURNAL
of
CHROMATOGRAPHY

INTERNATIONAL JOURNAL ON CHROMATOGRAPHY,
ELECTROPHORESIS AND RELATED METHODS

Cumulative Author and Subject Indexes Volumes 251–275 (1982–1983)

ELSEVIER
AMSTERDAM — OXFORD — NEW YORK — TOKYO
1984

Electronic data processing:
Büro für Satztechnik W. Meyer KG
Weissensberg, F.R.G.

© ELSEVIER SCIENCE PUBLISHERS B.V. — 1984

0021-9673/84/$03.00

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the publisher, Elsevier Science Publishers B.V., P.O. Box 330, 1000 AH Amsterdam, The Netherlands.

Upon acceptance of an article by the journal, the author(s) will be asked to transfer copyright of the article to the publisher. The transfer will ensure the widest possible dissemination of information.

Submission of an article for publication implies the transfer of the copyright from the author(s) to the publisher and entails the authors' irrevocable and exclusive authorization of the publisher to collect any sums or considerations for copying or reproduction payable by third parties (as mentioned in article 17 paragraph 2 of the Dutch Copyright Act of 1912 and in the Royal Decree of June 20, 1974 (S. 351) pursuant to article 16 b of the Dutch Copyright Act of 1912) and/or to act in or out of Court in connection therewith.

Special regulations for readers in the U.S.A. This journal has been registered with the Copyright Clearance Center, Inc. Consent is given for copying of articles for personal or internal use, or for the personal use of specific clients. This consent is given on the condition that the copier pays through the Center the per-copy fee stated in the code on the first page of each article for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. The appropriate fee should be forwarded with a copy of the first page of the article to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, U.S.A. If no code appears in an article, the author has not given broad consent to copy and permission to copy must be obtained directly from the author. All articles published prior to 1980 may be copied for a per-copy fee of US$ 2.25, also payable through the Center. This consent does not extend to other kinds of copying, such as for general distribution, resale, advertising and promotion purposes, or for creating new collective works. Special written permission must be obtained from the publisher for such copying.

Printed in The Netherlands

AUTHOR INDEX

VOLUMES 251—275

A

Aanonsen, L., see Verghese, C. 272(1983)149
Aarons, L., see Shaw, P.N. 274(1983)393
Abadie, F., see Rouan, M.C. 275(1983)133
Abalain, J.H., Picart, D., Berthou, F., Ollivier, R., Amet, Y., Daniel, J.Y. and Floch, H.H.
Separation of *erythro* and *threo* forms of alkane-2,3-diols from the uropygial gland of the quail by glass capillary column GC 274(1983)305
Abbiati, A., see Fong, M.H. 259(1983)141
Abe, I., Kuramoto, S. and Musha, S.
Chiral phases derived from XE-60 for glass capillary GC of amino acid enantiomers 258(1983)35
Abe, o., see Kuromizu, K. 267(1983)199
Aben, G.V.A., see Reijenga, J.C. 260(1983)241
Abernethy, D.R., see Greenblatt, D.J. 275(1983)450
Abidi, S.L.
HPLC of quinoidal imminium compounds derived from triphenylmethanes 255(1983)101
Acker, M. van, see Van Acker, M. 257(1983)170
Ackman, R.G., see Parrish, C.C. 262(1983)103
Acree, W.E. Jr.
Thermochemical investigations of GLC. II. Partition coefficients of alcohol solutes on binary solvent mixtures of inert hydrocarbons 257(1983)189
Adam, M., see Tellerová, K. 273(1983)197
Adams, J.D., Brunnemann, K.D. and Hoffmann, D.
Chemical studies on tobacco smoke. LXXV. Rapid method for the analysis of tobacco-specific N-nitrosamines by GLC with a thermal energy analyser 256(1983)347
Adlard, M.W., see Rogers, M.E. 257(1983)91
Advenier, C., see Spreux-Varoquaux, O. 274(1983)187
Ager, R.P. and Oliver, R.W.A.
Separation of oestrogens in biological fluids and synthetic mixtures on Sephadex G-type gels (Review) 271(1983)325
Ahmed, A.E., Sye, W.F., Coppenhaver, D.H. and Baron, S.
Mouse interferon: rapid purification by adsorption on controlled pore glass and HPLC 259(1983)169
Airaudo, C.B., Cerri, V., Gayte-Sorbier, A. and Andrianjafiniony, J.
TLC of natural dyes (in French) 261(1983)273
Aivaliotis, M.J., see Williams, R.F. 266(1983)141
Åkerblom, M. and Lindgren, B.
Simultaneous determination of active ingredient and chlorophenol impurities in phenoxy acid herbicide formulations by HPLC with UV and electrochemical detection 258(1983)302
Akiyama, H., see Funae, Y. 264(1983)249
Akiyama, J.-I., see Hirokawa, T. 271(1983)D1
Alam, A.S., see Lee, Y.-C. 269(1983)28
Albert, K., see Bayer, E. 264(1983)197
Alberts, D.S., see Peng, Y.-M. 273(1983)410
Alcock, N.J., Eckers, C., Games, D.E., Games, M.P.L., Lant, M.S., McDowall, M.A., Rossiter, M., Smith, R.W., Westwood, S.A. and Wong, H.-Y.
HPLC-MS with transport interfaces 251(1982)165
Aldridge, M., see Wainer, I.W. 261(1983)123, 268(1983)107
Alexander, R., Kagi, R.I. and Sheppard, P.N.
Relative abundance of dimethylnaphthalene isomers in crude oils 267(1983)367
Alfredsson, G. and Sedvall, G.
Rapid HPLC method for the assay of glutamine in human cerebrospinal fluid 274(1983)325
Alikulov, Z.A., see Mendel, R.R. 267(1983)409
Alken, R.G., see Haegele, K.D. 274(1983)103
Allenmark, S. and Bomgren, B.
Direct LC separation of enantiomers on immobilized protein stationary phases. II. Optical resolution of a sulphoxide, a sulophoximine and a benzoylamino acid 252(1982)297
Allenmark, S., Bomgren, B. and Borén, H.
Direct LC separation of enantiomers on immobilized protein stationary phases. III.

Optical resolution of a series of N-aroyl D,L-amino acids by HPLC on bovine serum albumin covalently bound to silica 264(1983)63
Allievi, C., De Bernardi, M., Demarchi, F. and Mellerio, G.
Chromatographic analysis of 2,2-dimethylchromene derivatives 261(1983)311
Allmendinger, H., see Koppenhoefer, B. 260(1983)63
Allmond, W.K., see Taylor, J.L. 257(1983)275
Alm, S., Jonson, S., Karlsson, H. and Sundholm, E.G.
Simultaneous GC analysis of drugs of abuse on two fused-silica columns of different polarities 254(1983)179
Alonso, J., see Nogués, M.V. 268(1983)255
Alperin, D.M., Carminatti, H., Idoyaga-Vargas, V. and Couso, R.O.
Thermal-UV method for differential detection and recovery of organic compounds in TLC 265(1983)193
Alpert, A.J.
Cation-exchange HPLC of proteins on poly(aspartic acid)-silica 266(1983)23
Alpert, A.J., see Ou, C.-N. 266(1983)197
Amagaya, S., see Shimizu, K. 268(1983)85, 272(1983)170
Amato, A., Cavazzutti, G., Gagliardi, L., Profili, M., Zagarese, V., Chimenti, F., Tonelli, D. and Gattavecchia, E.
Determination of vincamine by HPLC with dual-wavelength UV detection 270(1983)387
Amato, A., see Cavazzutti, C. 257(1983)166
Amato, A., see Cavazzutti, G. 268(1983)528
Ambert, J.-P., see Hartmann, L. 273(1983)235
Amemura, A., see Koizumi, K. 265(1983)89
Amet, Y., see Abalain, J.H. 274(1983)305
Amsterdam, J.G.C. van, see Van Amsterdam, J.G.C. 258(1983)165
Amsterdam, P.H. van, see Van Amsterdam, P.H. 252(1982)193
Anderegg, R.J.
Isotope cluster chromatography to locate isotopically labeled species 275(1983)154
Andermann, G. and Dietz, M.
Determination of free and conjugated *cis*-3,3,5-trimethylcyclohexanol in plasma and urine (in French) 272(1983)299
Anderson, B.M.
Separation of α, β- and iso-α-acids in hop products and beer by HPLC 262(1983)448
Anderson, L.A., see Keene, A.T. 260(1983)123
Andreev, L.V. and Panteleev, N.P.
Rapid GC analysis of residual hydrocarbons in fodder yeast 259(1983)508
Andrews, P.A., Pan, S.-S. and Bachur, N.R.
LC and MS analysis of mitosane and mitosene derivatives of mitomycin C 262(1983)231
Andrianjafiniony, J., see Airaudo, C.B. 261(1983)273
Andruszkiewicz, R., see Czerwiński, A. 256(1983)372
Andrysiak, A., see Kusz, P. 254(1983)163, 267(1983)227
Angeles Barcelón, M. de los, see De los Angeles Barcelón, M. 260(1983)147
Annison, G., Cheetham, N.W.H. and Couperwhite, I.
Determination of the uronic acid composition of alginates by HPLC 264(1983)137
Ansari, G.A.S.
HPLC separation of the isomers of butylated hydroxyanisole 262(1983)393
Anthony, L.J. and Prescott, B.E.
Simultaneous determination of small amounts of hydrochloric and hydrobromic acids by derivatization with ethylene oxide and GC 264(1983)405
Anton, R., see Lobstein-Guth, A. 267(1983)431
Antonopoulos, C.A., see Hjerpe, A. 259(1983)334
Anukarahanonta, T. and Chudhabuddhi, C.
HPLC of aflatoxins in human urine 275(1983)387
Aoki, N., see Hirokawa, T. 271(1983)D1
Aoyagi, S., Hirayanagi, K., Yoshimura, T. and Ishikawa, T.
Preparative separation of nucleosides and nucleotides on a non-ionic gel column 253(1982)133
Aoyama, T. and Yashiro, T.
Analytical study of low-concentration gases. II. Collection of acetaldehyde at low concentrations in air in a solid reaction tube and its analysis using a flame thermionic detector 265(1983)45
Aoyama, T. and Yashiro, T.
Analytical study of low-concentration gases. III. Determination of lower fatty acids and their trimethylsilyl esters in air by GC 265(1983)57
Aoyama, T. and Yashiro, T.
Analytical study of low-concentration gases. IV. Investigation of the reaction by trapping nitrogen dioxide in air using the triethanolamine method 265(1983)69
Appler, B. and Christmann, K.
Detection of β,β'-dichloroethyl sulphide on thin-layer chromatograms 264(1983)445
Arakawa, S., see Miyazaki, H. 274(1983)75
Arakawa, Y., see Yu, T.-H. 258(1983)189
Araki, Y., see Honda, S. 274(1983)45
Arancibia, E.L., see Castells, R.C. 259(1983)413
Arashidani, K., see Kodama, Y. 261(1983)103
Arbin, A., see Johansson, M. 275(1983)355
Archer, B.G., see Cooke, N.H.C. 255(1983)115
Arman, M. and Jamali, F.
HPLC determination of ethyl biscoumacetate in human plasma 272(1983)406
Arpino, P.J., Bounine, J.P., Dedieu, M. and Guiochon, G.
Optimization of the instrumental parameters of a combined liquid chromatography-mass spectrometer, coupled by an interface for direct liquid

introduction. IV. A new desolvation chamber for droplet focusing or Townsend discharge ionization 271(1983)43
Arpino, P.J. and Guiochon, G.
Optimization of the instrumental parameters of a combined liquid chromatograph-mass spectrometer, coupled by an interface for direct liquid introduction. III. Why the solvent should not be removed in LC-MS interfacing methods 251(1982)153
Arpino, P.J., see Dedieu, M. 251(1982)203
Arpino, P.J., see Guiochon, G. 271(1983)13
Arrendale, R.F., Severson, R.F. and Chortyk, O.T.
Preparation of fused-silica polar stationary phase wall-coated open tubular columns 254(1983)63
Arsov, A., Kostova, V. and Mesrob, B.
TLC of disperse dyes on polyamide sheets 267(1983)448
Asada, H., see Niwa, T. 272(1983)227
Ascalone, V. and Dal Bò, L.
Determination of ceftriaxone, a novel cephalosporin, in plasma, urine and saliva by HPLC on an NH_2 bonded-phase column 273(1983)357
Ashworth, A.J., Letcher, T.M. and Price, G.J.
Mixed solvents in GLC. Activity coefficients for diethyl ether in squalane and dinonyl phthalate mixtures at 303°K 262(1983)33
Asmus, P.A., Landis, J.B. and Vila, C.L.
LC determination of lincomycin in fermentation beers 264(1983)241
Assenza, S.P., Brown, P.R. and Goldberg, A.P.
Isocratic reversed-phase LC separation of 3',5'-cyclic ribonucleotides 272(1983)373
Atkinson, T., see Small, D.A.P. 266(1983)151
Attygalle, A.B., Morgan, E.D., Evershed, R.P. and Rowland, S.J.
Comparison of three derivatives for the enantiomeric separation of chiral alcohols and the absolute configuration of *Myrmica* ant 3-octanol 260(1983)411
Aubert, C., see Coassolo, P. 274(1983)161
Audunsson, G. and Mathiasson, L.
Simultaneous determination of amines and isocyanates in working atmospheres by GLC 261(1983)253
Aue, W.A., see Siu, K.W.M. 268(1983)273
Awasthi, K.K., see Srivastava, K.C. 275(1983)61
Axiö-Fredriksson, U.-B., see Fägerstam, L.G. 266(1983)523
Axiö-Fredriksson, U.-B., see Lindblom, H. 273(1983)107
Ayame, A., see Uemichi, Y. 259(1983)69
Ayres, D.C., see Lim, C.K. 255(1983)247
Ayyangar, N.R. and Srinivasan, K.V.
Correlation of pK_{BH+} of acetanilides with LC behaviour 267(1983)399

B

Baars, L.G., see Thijssen, H.H.W. 274(1983)231
Baaske, D.M., see Lee, Y.-C. 269(1983)28
Baba, N., see Matsushita, S. 259(1983)459
Bach, T.C., see Seliger, H. 253(1982)65
Bachur, N.R., see Andrews, P.A. 262(1983)231
Bachur, N.R., see Friedman, R.D. 252(1982)283
Back, P.S., see Lavoie, J.M. 264(1983)329
Badaisha, K.K. and Kohli, J.C.
Jone's oxidation of terpenoids on TLC plates 268(1983)549
Baerheim Svendsen, A., see Verpoorte, R. 261(1983)172
Bain, R., see Brown, R.R. 272(1983)351
Bairoch, A., see Rose, K. 268(1983)197
Baker, P.R., see Reid, A.D. 260(1983)115, 268(1983)281
Baker, R.W.R. and Ferrett, J.
Estimation of polyethyleneglycols in human urine for studies of intestinal absorption 273(1983)421
Bakker, J.O., see Venema, K. 260(1983)371
Bakó, P., see Trézl, L. 269(1983)40
Balakrishnan, I. and Rao, B.S.
GC separation of the products of the conversion of methanol to alkenes 257(1983)392
Balard, K.D., Eller, T.D. and Knapp, D.R.
Use of O-((-)-menthyl)-N,N'-diisopropylisourea for the preparation of diastereomeric menthyl esters for the chromatographic resolution of enantiomeric carboxylic acids 275(1983)161
Ballschmiter, K., see Scholz, B. 252(1982)269
Balzer, H. and Husseini, H.
Separation by different methods of soluble proteins isolated from sympathetic splenic nerves 259(1983)87
Banes, A.J., Yamauchi, M. and Moody, R.T.
Reversed-phase HPLC method for separation of collagen tryptic peptides 272(1983)366
Banks, F.B.
In situ quantitation of lipids by TLC using reflectance densitometry 254(1983)247
Bannister, S.J., Sternson, L.A. and Repta, A.J.
Evaluation of reductive amperometric detection in the LC determination of antineoplastic platinum complexes 273(1983)301
Bapat, B.V., see Panse, D.G. 264(1983)279
Baram, G.I., Grachev, M.A., Komarova, N.I., Perelroyzen, M.P., Bolvanov, Y.A., Kuzmin, S.V., Kargaltsev, V.V. and Kuper, E.A.
Micro-column LC with multi-wavelength photometric detection. I. The OB-4 micro-column liquid chromatograph 264(1983)69
Barasoain, F.F., see Perez, R.L. 260(1983)200
Barbaro, A.M., see Guerra, M.C. 259(1983)329

Barber, W.E. and Carr, P.W.
UV visualization of inorganic ions by reversed-phase ion-interaction chromatography 260(1983)89
Barden, A.E., Croft, K.D., Mathews, E.L., Soltys, J.S., Vandongen, R. and Beilin, L.J.
Cross-channel contamination of prostaglandins during separation by thin-layer chromatography 275(1983)229
Bareggi, S.R., see Zecca, L. 272(1983)401
Bareš, M., see Mikeš, O. 261(1983)363
Barker, P.E., see Holding, S.R. 261(1983)33
Barnes, L.D., see Williams, R.F. 266(1983)141
Baron, S., see Ahmed, A.E. 259(1983)169
Barriere, S.L., see Noonan, I.A. 273(1983)458
Barry, A.R., see Haff, L.A. 266(1983)409
Bartels, R., see Bock, L. 260(1983)206
Bartha, A. and Vigh, G.
Studies in reversed-phase ion-pair chromatography. I. Adsorption isotherms of tetraalkylammonium ion-pair reagents on LiChrosorb RP-18 in methanol-water eluents 260(1983)337
Bartha, Á. and Vigh, G.
Studies in ion-pair chromatography. II. Retention of positive and negative ions and neutral solutes in tetrabutylammonium bromide-containing methanol-water eluents on LiChrosorb RP-18 265(1983)171
Bartlett, J.M. and Segelman, A.B.
Bioanalysis of cimetidine by HPLC 255(1983)239
Bártů, V.
Calculation of the retention time and peak width for the purpose of optimized GC analysis 260(1983)255
Barz, W., see Köster, J. 270(1983)392
Barza, M., see Mayhew, J.W. 274(1983)271
Baselt, R.C.
Stability of cocaine in biological fluids 268(1983)502
Basey, A. and Oliver, R.W.A.
Nomenclature of LC. On the description of small-diameter columns used in LC (Review) 251(1982)265
Bates, E.H., see Burns, W.F. 269(1983)1
Batley, M., Redmond, J.W. and Tseng, A.
Sensitive analysis of aldose sugars by reversed-phase HPLC 253(1982)124
Batsberg Pedersen, W., see Mollerup Andersen, J. 259(1983)131
Bauer, M., Mailhe, L., Menard, D. and Rouanet, J.-P.
Determination of chlorhexidine and tetracaine in pharmaceutical preparations by ion-pair LC on a nitrile bonded phase (in French) 259(1983)360
Baust, J.G., Lee, R.E. Jr., Rojas, R.R., Hendrix, D.L., Friday, D. and James, H.
Comparative separation of low-molecular-weight carbohydrates and polyols by HPLC: radially compressed amine modified silica *versus* ion exchange 261(1983)65
Baxter, J.A., Terhune, S.J. and Qureshi, S.A.
Use of chromotropic acid for improved TLC visualization of trichothecene mycotoxins 261(1983)130
Bayart, H., see Combellas, C. 259(1983)211
Bayer, E., Albert, K., Reiners, J., Nieder, M. and Müller, D.
Characterization of chemically modified silica gels by ^{29}Si and ^{13}C cross-polarization and magic angle spinning NMR 264(1983)197
Bayer, E. and Liu, G.H.
New split injection technique in capillary column GC 256(1983)201
Bayer, E., see Frank, H. 270(1983)159
Bayer, E., see Koppenhoefer, B. 260(1983)63
Bayer, E., see Wang, C. 262(1983)352
Beaudry, J., see Peng, Y.-M. 273(1983)410
Beaulieu, M., see Goldman, M.E. 275(1983)407
Beaver, L.A., see Guiochon, G. 255(1983)415
Beckage, M.J., see Frank, B.H. 266(1983)239
Becker, J.M., see Shenbagamurthi, P. 256(1983)117
Beckett, A.H. and Stanojčić, M.
GC decomposition of 2-aminopropiophenones 270(1983)151
Beechey, R.B., see Partis, M.D. 259(1983)189
Behl, H.M., see Marchand, B. 265(1983)97
Beilin, L.J., see Barden, A.E. 275(1983)229
Belenkii, B.G., see Maltsev, V.G. 273(1983)95
Bellotti, V., see Moro, E. 274(1983)281
Bendt, J.S., see Tserng, K.-Y. 272(1983)233
Benecke, I., see König, W.A. 253(1982)267, 269(1983)19
Benfenati, E., see Fong, M.H. 259(1983)141
Bennett, H.P.J.
Isolation of pituitary peptides by reversed-phase HPLC. Expansion of the resolving power of reversed-phase columns by manipulating pH and the nature of the ion-pairing reagent 266(1983)501
Bennett, R.W., see Williams, R.R. 266(1983)179
Beran, M., Tax, J., Schön, V., Vaněk, Z. and Podojil, M.
Preparative reversed-phase HPLC of monensin A and B sodium salts 268(1983)315
Berenson, G.S., see Radhakrishnamurthy, B. 256(1983)341
Berezin, B.B., Yamskov, I.A. and Davankov, V.A.
Ligand-exchange chromatography of amino acid racemates on polystyrene sorbents containing L-methionine-*d*-sulphoxide or L-methionine-*l*-sulphoxide groups 261(1983)301
Berezkin, V.G., Chernysheva, T.Y. and Bolotov, S.L.
Evaluation of the role of chromatography in analytical chemistry based on the analysis of the subject matter of publications (Review) 251(1982)227
Berg, J.H.M. van den, see Van den Berg, J.H.M. 255(1983)545
Berger, M., see Cadet, J. 259(1983)111
Bergkvist, H., see Strömberg, L. 258(1983)65

Bergqvist, Y. and Domeij-Nyberg, B.
Distribution of chloroquine and its metabolite desethyl-chloroquine in human blood cells and its implication for the quantitative determination of these compounds in serum and plasma 272(1983)137
Berman, S.S., see Siu, K.W.M. 256(1983)455
Bernardi, M. de, see De Bernardi, M. 261(1983)311
Berthou, F., see Abalain, J.H. 274(1983)305
Bertocchi, G., see Gattavecchia, E. 260(1983)517
Betti, A., Dondi, F., Blo, G., Coppi, S., Cocco, G. and Bighi, C.
GSC characterization of active carbons 259(1983)433
Betti, A., see Blo, G. 257(1983)69
Betti, A., see Coppi, S. 267(1983)91
Betto, R., see Dalla Libera, L. 264(1983)164
Bezzubov, A.A. and Gessler, N.N.
GLC and column LC for studying vitamin U metabolism in humans and animals 273(1983)192
Bhat, P.V., Co, H.T. and Lacroix, A.
Effect of 2-alkanols on the separation of geometric isomers of retinol in non-aqueous HPLC 260(1983)129
Bhat, P.V. and Lacroix, A.
Separation and estimation of retinyl fatty acyl esters in tissues of normal rat by HPLC 272(1983)269
Biagi, G.L., see Guerra, M.C. 259(1983)329
Bianchetti, G., see Ganansia, J. 275(1983)183
Bianchi, M., see Tortoreto, M. 262(1983)367
Bianchini, J.P. and Gaydou, E.M.
Substituent effect of polymethoxylated flavones in HPLC 259(1983)150
Bietz, J.A.
Separation of cereal proteins by reversed-phase HPLC 255(1983)219
Biffar, S., Cohn, L.J., Greely, V.J. and Tibbetts, D.L.
Simultaneous determination of hexylcaine hydrochloride and parabens in solution by HPLC 257(1983)400
Biggs, W.R. and Fetzer, J.C.
Analysis of metal deactivators in lubricating oils 260(1983)137
Bighi, C., see Betti, A. 259(1983)433
Bighi, C., see Blo, G. 257(1983)69
Bighi, C., see Coppi, S. 267(1983)91
Bij, K.E. and Lederer, M.
TLC of some nucleobases and nucleosides on cellulose layers 268(1983)311
Bijloo, G.J., see Grünbauer, H.J.M. 270(1983)87
Bindels, J.G., De Man, B.M. and Hoenders, H.J.
High-performance GPC of bovine eye lens proteins in combination with low-angle laser light scattering. Superior resolution of the oligomeric β-crystallins 252(1982)255
Bindels, J.G. and Hoenders, H.J.
Artificial peaks in GPC due to combining column supports with different pore sizes 261(1983)381
Binder, H., see Burtscher, E. 252(1982)167
Binns, R.B., see Tsuji, K. 253(1982)227
Biondi, P.A., Niu-Fan, G., Simonic, T., Secchi, C. and Manzocchi, A.
A new internal standard suitable for the GC determination of 3-methoxy-4-hydroxyphenylethyleneglycol 273(1983)393
Biral, D., see Dalla Libera, L. 264(1983)164
Birkenmeier, G., Usbeck, E., Saro, L. and Kopperschläger, G.
Triazine dye binding of human α-fetoprotein and albumin 265(1983)27
Birkett, D.J., see Miners, J.O. 275(1983)89
Bischoff, R., Graeser, E. and McLaughlin, L.W.
tRNA separation by HPLC using an aggregate of ODS-Hypersil and trioctylmethylammonium chloride 257(1983)305
Bischoff, R. and McLaughlin, L.W.
Chemically synthesized hydrophobic anion-exchange HPLC supports used for oligonucleotide resolution by mixed mode chromatography 270(1983)117
Bishop-Freudling, G.B. and Vergin, H.
Determination of metoclopramide in human plasma by HPLC 273(1983)453
Bissinger, J.M., Rullo, K.T., Stoklosa, J.T., Shearer, C.M. and DeAngelis, N.J.
HPLC analysis of acid chlorides by pre-derivatization 268(1983)102
Blackman, G.L., see Sitaram, B.R. 275(1983)21
Blain, Y., see Montay, G. 272(1983)359
Blakeney, A.B., see Henry, R.J. 256(1983)419, 262(1983)249
Blakesley, D., Hall, J.F., Weston, G.D. and Elliott, M.C.
Simultaneous analysis of indole-3-acetic acid and detection of 4-chloroindole-3-acetic acid and 5-hydroxyindole-3-acetic acid in plant tissues by HPLC of their 2-methylindolo-α-pyrone derivatives 258(1983)155
Blank, M.L. and Snyder, F.
Improved HPLC method for isolation of platelet-activating factor from other phospholipids 273(1983)415
Blaschek, W.
Complete separation and quantification of neutral sugars from plant cell walls and mucilages by HPLC 256(1983)157
Blasius, E. and Mernke, E.
Separations of position-isomeric aromatic sulphonates by high-voltage electrophoresis in dimethylformamide (in German) 268(1983)477
Bleumer, J.P.A., see Tijssen, R. 260(1983)297
Blo, G., Dondi, F., Betti, A. and Bighi, C.
Determination of phenols in water samples as 4-aminoantipyrine derivatives by HPLC 257(1983)69
Blo, G., see Betti, A. 259(1983)433
Blo, G., see Coppi, S. 267(1983)91
Blomberg, L., see Buijten, J. 268(1983)387
Blomberg, L., see Markides, K. 254(1983)53, 267(1983)29

Blonda, C., see Tortoreto, M. 262(1983)367
Blouquit, Y., Senan, C. and Rosa, J.
An automatic method for determination of glycosylated hemoglobins using low-pressure LC 275(1983)41
Blouquit, Y., see Chen-Marotel, J. 258(1983)213
Bobik, A., see Oddie, C.J. 273(1983)469
Bobiński, J., see Kusz, P. 254(1983)163
Bobleter, O., see Burtscher, E. 252(1982)167
Boček, P., see Gebauer, P. 267(1983)49, 267(1983)455
Bock, E., see Kovar, K.-A. 262(1983)285
Bock, L. and Bartels, R.
New method for the purification of 7,8-dihydro-6-hydroxymethylpterin pyrophosphokinase (E.C. 2.7.6.3) from *Escherichia coli*. Application of hydrophobic interaction chromatography and flat-bed isoelectric focusing 260(1983)206
Böcker, R.
Analysis and quantitation of a metabolite of doxycycline in mice, rats, and humans by HPLC 274(1983)255
Bockstaele, M. van, see Van Bockstaele, M. 275(1983)11
Bocquet, J.F. and Pommier, C.
Liquid crystals as stationary phases in GLC. V. Thermodynamic study of solutions in azoxy-4,4'-(diundecyl α-methyl cinnamate) and cholesteryl nonanoate; Kinetics of phase transitions of cholesteryl nonanoate (in French) 261(1983)11
Boekel, M.A.J.S. van, see Van Boekel, M.A.J.S. 261(1983)176
Boekholt, H.A., see Schreurs, V.V.A.M. 254(1983)203
Boettcher, B., see Klemm, L.H. 259(1983)453
Böhm, K.H., see Ramsteiner, K.A. 260(1983)33
Bolotov, S.L., see Berezkin, V.G. 251(1982)227
Bolvanov, Y.A., see Baram, G.I. 264(1983)69
Bomgren, B., see Allenmark, S. 252(1982)297, 264(1983)63
Bonaldo, L., see Ursini, F. 270(1983)301
Bonfils, S., see Robert, J.C. 273(1983)275
Bonini, L., see Zecca, L. 272(1983)401
Bonnat, C., see Merdjan, H. 273(1983)475
Boonyarat, D., Kojima, K. and Nagatsu, T.
A highly sensitive assay for non-specific N-methyltransferase activity in rat tissues by HPLC with electrochemical detection 274(1983)331
Boos, K.-S., see Hagemeier, E. 268(1983)291
Borda, J., Nagy, M.Sz. and Budai, Z.
HPLC separation of 1-benzyl-4-(2'-pyridinecarbonyl)piperazine and its potential metabolites 258(1983)271
Bordás, B., see Cserháti, T. 259(1983)107
Borea, P.A., see Guerra, M.C. 259(1983)329
Borén, H., Grimvall, A. and Sävenhed, R.
Modified stripping technique for the analysis of trace organics in water 252(1982)139
Borén, H., see Allenmark, S. 264(1983)63
Bornhop, D.J., see Kapila, S. 259(1983)205
Borowski, E., see Czerwiński, A. 256(1983)372
Bory, M., see Calaf, R. 272(1983)385
Boselli, T., Mangia, A., Pelizzi, C. and Predieri, G.
HPLC of alkyl phosphite-substituted derivatives of iron pentacarbonyl 265(1983)347
Bosserhoff, A., see Reinbolt, J. 259(1983)121
Bossle, P.C., Martin, J.J., Sarver, E.W. and Sommer, H.Z.
HPLC analysis of alkyl methylphosphonic acids by derivatization 267(1983)209
Bostedor, R., see Germershausen, J. 270(1983)383
Bots, A.M.B., Van Oort, W.J., Noordhoek, J., Van Dijk, A., Klein, S.W. and Van Hoesel, Q.G.C.M.
Analysis of adriamycin and adriamycinol in micro volumes of rat plasma 272(1983)421
Bouchard, D.C. and Lavy, T.L.
HPLC determination of hexazinone residues in soil and water 270(1983)396
Boulanger, Y., see Reinbolt, J. 259(1983)121
Boult, C.H., see Shaw, I.C. 275(1983)206
Bounine, J.P., see Arpino, P.J. 271(1983)43
Bounine, J.P., see Dedieu, M. 251(1982)203
Bouquet des Chaux, J.-L., see Vink, J. 272(1983)87
Bourson, J., see Farinotti, R. 269(1983)81
Bowers, W.D., see Hawley-Fedder, R.A. 269(1983)161
Bowman, P.B., see Theis, D.L. 268(1983)92
Brabander, H.F. de, see De Brabander, H.F. 252(1982)225
Brain, K.R. and Thapa, B.B.
HPLC determination of vasicine and vasicinone in *Adhatoda vasica* Nees 258(1983)183
Brandl, W. and Herrmann, K.
Analytical and preparative HPLC of hydroxycinnamic acid esters 260(1983)447
Braumann, T., Weber, G. and Grimme, L.H.
Quantitative structure-activity relationships for herbicides. Reversed-phase liquid chromatographic retention parameter, log k_w, *versus* liquid-liquid partition coefficient as a model of the hydrophobicity of phenylureas, *s*-triazines and phenoxycarbonic acid derivatives 261(1983)329
Braun, D.G., see Rosenfelder, G. 272(1983)21
Brazier, J.L., see Miribel, L. 268(1983)321
Breccia, A., see Tonelli, D. 275(1983)223
Brederode, J. van, see Van Brederode, J. 256(1983)151
Bree, H. de, see De Bree, H. 252(1982)193
Breig, U. and Vesterberg, O.
Studies on multiple molecular forms of transferrin 274(1983)337
Bremner, J.B., see Richardson, D.E. 268(1983)341
Brettell, T.A.
Analysis of N-momo-trifluoroacetyl derivatives of amphetamine analogues by GC and MS 257(1983)45

Breukelman, H., see Keyzer, J.J. 275(1983)261
Brezonik, P.L., see Miles, C.J. 259(1983)499
Briançon-Scheid, F., see Lobstein-Guth, A. 267(1983)431
Briggs, C.J. and Simons, K.J.
GC assay of atropine in formulations containing atropine sulphate and cholinesterase reactivators 257(1983)132
Brimer, L., see Dalgaard, L. 265(1983)183
Brinckman, F.E., see Parks, E.J. 255(1983)439
Brinkman, U.A.T. and De Vries, G.
TLC on chemically bonded phases: a comparison of pre-coated plates 258(1983)43
Brinkman, U.A.T. and De Vries, G.
Use of various organic modifiers in TLC on chemically bonded phases 265(1983)105
Brinkman, U.A.T., see De Kok, A. 252(1982)101
Brinkman, U.A.T., see Kok, W.T. 256(1983)17
Brinkman, U.A.T., see Werkhoven-Goewie, C.E. 255(1983)79
Bristow, A.F., Wilson, C. and Sutcliffe, N.
Reversed-phase HPLC of human thyroid-stimulating hormone 270(1983)285
Brittain, A.T., see Hoppel, C.L. 272(1983)43
Brodie, R.R., Chasseaud, L.F., Rooney, L., Darragh, A. and Lambe, R.F.
Determination of heptaminol in human plasma and urine by HPLC 274(1983)179
Brondz, I., Olsen, I. and Greibrokk, T.
Direct analysis of free fatty acids in bacteria by GC 274(1983)299
Brønnum-Hansen, K. and Hansen, S.H.
HPLC separation of anthocyanins of *Sambucus nigra* L. 262(1983)385
Brons, C. and Olieman, C.
Study of the HPLC separation of reducing sugars, applied to the determination of lactose in milk 259(1983)79
Brooks, J.B., see Edman, D.C. 274(1983)1
Brooks, M.A., see Hackman, M.R. 273(1983)347
Brooks, P.M., see Miners, J.O. 275(1983)89
Brosch, K.O., see Seegal, R.F. 273(1983)253
Brown, F.M., see Hoppel, C.L. 272(1983)43
Brown, P.R., see Assenza, S.P. 272(1983)373
Brown, P.R., see Zakaria, M. 255(1983)151
Brown, R.R., Bain, R. and Jordan, V.C.
Determination of tamoxifen and metabolites in human serum by HPLC with post-column fluorescence activation 272(1983)351
Bruins, A.P. and Drenth, B.F.H.
Experiments with the combination of a micro liquid chromatograph and a chemical ionization quadrupole mass spectrometer, using a capillary interface for direct liquid introduction. Some theoretical considerations concerning the evaporation of liquids from capillaries into vacuum 271(1983)71
Brunnemann, K.D., see Adams, J.D. 256(1983)347
Brunner, C.A., see Wainer, I.W. 264(1983)154
Brunt, K.
Influence of mutarotation catalysts on the LC of malto-oligosaccharides on a cation-exchange resin 267(1983)347
Brunt, K. and Hokse, H.
LC analysis of α-D-glucose-1-phosphate. Determination of the activity of phosphorylase 268(1983)131
Brush, J.S., see Welinder, B.S. 257(1983)162
Bruyne, M.M.A. de, see De Bruyne, M.M.A. 270(1983)337
Buchwald, W.F., see Cone, E.J. 275(1983)307
Buckingham, D.A., Clark, C.R., Deva, M.M. and Tasker, R.F.
Reversed-phase HPLC of pentaammine cobalt(III) complexes 262(1983)219
Buckingham, W., see Phipps, J.A. 272(1983)392
Buckle, K.A., see Kok, S.H. 260(1983)189
Buckle, K.A., see Rathnawathie, M. 264(1983)316
Budahegyi, M.V., Lombosi, E.R., Lombosi, T.S., Mészáros, S.Y., Nyiredy, S., Tarján, G., Timár, I. and Takács, J.M.
Twenty-fifth anniversary of the retention index system in GLC (Review) 271(1983)213
Budai, Z., see Borda, J. 258(1983)271
Budd, R.D.
Ethanol levels in postmortem body fluids 252(1982)315
Budd, R.D.
Post mortem brain alcohol levels 259(1983)353
Budd, R.D., see Liu, Y. 268(1983)329
Buffone, G.J., see Ou, C.-N. 266(1983)197
Buijten, J., Blomberg, L., Markides, K. and Wännman, T.
Immobilization of polyethylene glycol in capillary columns for GC 268(1983)387
Buijten, J., see Markides, K. 254(1983)53, 267(1983)29
Bultsma, T., see Grünbauer, H.J.M. 270(1983)87
Bur, H., see Milon, H. 271(1983)83
Burch, J.E., Raddats, M.A. and Roberts, S.G.
Determination of desmethyl nortriptyline in plasma by GC before and after treatment with salicylaldehyde 274(1983)350
Burchill, P., Herod, A.A., Mahon, J.P. and Pritchard, E.
Comparison of methods for the isolation of basic nitrogen compounds from coal tars 265(1983)223
Burda, J., see Vodička, L. 270(1983)199
Burford, R.P., Haken, J.K. and Obita, J.A.
Analysis of Novor compounds in cross-linked natural rubber products 268(1983)515
Burger, B.V. and Munro, Z.
All-glass system for preparative glass capillary GC 262(1983)95
Burger, J.A., see Moodie, I.M. 261(1983)146
Burness, A.T.H. and Pardoe, I.U.
Chromatofocusing of sialoglycoproteins 259(1983)423
Burns, W.F., Tingey, D.T., Evans, R.C. and Bates, E.H.
Problems with a Nafion membrane dryer for drying chromatographic samples 269(1983)1

Burrows, R., Cooke, M. and Gillespie, D.G.
Thermostable deactivation reagents for capillary column preparation 260(1983)168
Burtscher, E., Binder, H., Concin, R. and Bobleter, O.
Separation of phenols, phenolic aldehydes, ketones and acids by HPLC 252(1982)167
Bury, R.W., see Kacprowicz, A.T. 272(1983)417
Bush, B., see Seegal, R.F. 273(1983)253
Bush, S.G., Jorgenson, J.W., Miller, M.L. and Linton, R.W.
Transmission near-IR technique for evaluation and relative quantitation of surface groups on silica 260(1983)1
Butkunas, R., see Strahler, J.R. 266(1983)281
Butler, H.T., Schuette, S.A., Pacholec, F. and Poole, C.F.
Characterization of a scanning densitometer for HPTLC 261(1983)55
Butte, W.
Rapid method for the determination of fatty acid profiles from fats and oils using trimethylsulphonium hydroxide for transesterification 261(1983)142
Buuren, K.J.H. van, see Van Buuren, K.J.H. 258(1983)165

C

Cabras, P., Diana, P., Meloni, M., Pirisi, F.M. and Pirisi, R.
Reversed-phase HPLC of pesticides. VII. Analysis of Vinclozolin, Iprodione, Procymidone, Dichlozolinate and their degradation product 3,5-dichloroaniline on white must and wine extracts 256(1983)176
Caccia, S., Garattini, S., Mancinelli, A. and Muglia, M.
Identification and quantitation of 1-(2-pyrimidinyl)piperazine, an active metabolite of the anxiolytic agent buspirone, in rat plasma and brain 252(1982)310
Caccia, S., see Fong, M.H. 259(1983)141
Cachia, P.J., Van Eyk, J., Chong, P.C.S., Taneja, A. and Hodges, R.S.
Separation of basic peptides by cation-exchange HPLC 266(1983)651
Caddy, B., see Tebbett, I.R. 268(1983)535
Cadet, J., Voituriez, L. and Berger, M.
Separation of nucleic acid components and their radiation-induced degradation products on chemically bonded C_{12} 259(1983)111
Calaf, R., Marie, P., Ghiglione, C., Bory, M. and Reynaud, J.
GC determination of diltiazem in plasma (in French) 272(1983)385
Calam, D.H., Davidson, J. and Ford, A.W.
Investigations of the allergens of cocksfoot grass (*Dactylis glomerata*) pollen 266(1983)293
Calatroni, A., see Pietta, P. 275(1983)217
Caldwell, K.D., see Giddings, J.C. 255(1983)359
Calvin, M.-C., see Chen-Marotel, J. 258(1983)213
Camaggi, C.M., Strocchi, E., Canova, N. and Pannuti, F.
HPLC analysis of tamoxifen and major metabolites in human plasma 275(1983)436
Camirand, A. and Wightman, F.
Separation of some tyrosine, tryptophan and phenylalanine derivatives by TLC 267(1983)443
Campeau, J.D., Marrs, R.P. and DiZerega, G.S.
Comparison of chromatofocusing and isoelectric focusing in recovery of specific activity from biological fluids 262(1983)334
Campos Flor, S.
Determination of the calcium antagonist flunarizine in biological fluids by GLC 272(1983)315
Cano, J.P., see Coassolo, P. 274(1983)161
Canova, N., see Camaggi, C.M. 275(1983)436
Cantelli Forti, G., see Guerra, M.C. 259(1983)329
Caplan, P.J. and Cronin, D.A.
Simple device for solvent-free injection of high-boiling compounds in capillary GC 267(1983)19
Capp, M., see Cooke, N.H.C. 255(1983)115
Capp, M.W., see Simonian, M.H. 266(1983)351
Caradonna, P., see Castagnola, M. 272(1983)51
Cardaci, V., see Fanali, S. 265(1983)131
Cardwell, T.J. and Carter, M.R.L.
Rate and equilibrium studies of the reaction between beryllium oxyacetate and beryllium oxypropionate by GC 252(1982)131
Carmen, D.J., see Echols, R.E. 262(1983)257
Carminatti, H., see Alperin, D.M. 265(1983)193
Carnegie, P.R., Ilic, M.Z., Etheridge, M.O. and Collins, M.G.
Improved HPLC method for analysis of histidine dipeptides anserine, carnosine and balenine present in fresh meat 261(1983)153
Caron, M., see Faure, A. 257(1983)387
Carr, P.W., see Barber, W.E. 260(1983)89
Carr, P.W., see Geng, X. 269(1983)96
Carter, M.R.L., see Cardwell, T.J. 252(1982)131
Carugati, G.P., see Pellegatta, G. 269(1983)33
Cary, P.L. and Pape, B.E.
Quantitation of 3'-hydroxypentobarbital in serum using HPLC 275(1983)107
Cassidy, R.M. and Elchuk, S.
Dynamically coated columns and conductivity detection for trace determination of organic anions by ion chromatography 262(1983)311
Castagnola, M., Caradonna, P., Salvi, M.L. and Rossetti, D.
Investigation of the heterogeneity of

hemoglobin by cation-exchange chromatography on Bio-Rex 70 272(1983)51
Casteele, K. vande, see Vande Casteele, K. 258(1983)111, 259(1983)291
Castello, G. and D'Amato, G.
Classification of the "polarity" of porous polymer bead columns for GC at high temperature by analysis of standard polarity probes 254(1983)69
Castello, G. and D'Amato, G.
Classification of the "polarity" of porous polymer bead stationary phases by comparison with squalane and Apolane standard liquid phases 269(1983)153
Castells, R.C., Nardillo, A.M., Arancibia, E.L. and Delfino, M.R.
Solution and adsorption thermodynamics in propylene glycol by GC. A comparative study with other polyhydroxylated solvents 259(1983)413
Catalani, P., see Tortoreto, M. 262(1983)367
Catterick, T.
The development of a multiwavelength detector for HPLC 259(1983)59
Catto, B.A., see Xiao, S.-H. 275(1983)127
Caude, M., see Combellas, C. 259(1983)211
Caude, M., see Souteyrand, C. 262(1983)1
Caudill, W.L., Novotný, M.V. and Wightman, R.M.
Determination of some polyaromatic compounds by reversed-phase LC with electrochemical detection 261(1983)415
Cavazzutti, C., Gagliardi, L., Amato, A., Gattavecchia, E. and Tonelli, D.
Determination of quinine in hair preparations by reversed-phase HPLC 257(1983)166
Cavazzutti, G., Gagliardi, L., Amato, A., Profili, M., Zagarese, V., Tonelli, D. and Gattavecchia, E.
Colour reactions of iodic acid as reagent for identifying drugs by TLC 268(1983)528
Cavazzutti, G., see Amato, A. 270(1983)387
Cavé, A., see Hutin, M. 265(1983)139, 268(1983)125
Čechová, D., see Štrop, P. 259(1983)255
Černíková, M., Dubský, H. and Horáček, J.
Detection of acridine in human urine after topical coal-tar treatment 273(1983)202
Cerri, V., see Airaudo, C.B. 261(1983)273
Chadimová, D., see Vrátný, P. 257(1983)23
Chambon, P., Dano, S.D., Chambon, R. and Geahchan, A.
Rapid determination of aflatoxin M1 in milk and dairy products by HPLC 259(1983)372
Chambon, R., see Chambon, P. 259(1983)372
Chan, J.S.D., see Seidah, N.G. 266(1983)213
Chan, K.Y., Lang, J.F. and Okerholm, R.A.
Quantitative determination of cardiotonic agent MDL 17,043 in plasma by reversed-phase HPLC 272(1983)396
Chan, K.Y. and Okerholm, R.A.
Quantitative analysis of melperone in human plasma by GC-MS-selected ion monitoring 274(1983)121
Chang, F.-H., see Wu, S.-H. 259(1983)375
Chang, J.P., see Giddings, J.C. 255(1983)359
Chang, J.-Y., see Rosenfelder, G. 272(1983)21
Chang, S.F., Welscher, T.M., Miller, A.M. and Ober, R.E.
HPLC method for the quantitation of flecainide, a new antiarrhythmic, in human plasma and urine 272(1983)341
Chang, T. and Young, R.M.
GC assay of pramiracetam in human plasma using nitrogen specific detection 274(1983)346
Chang, T., see Hayes, A.G. 272(1983)176
Chapalain, J.P., see Spreux-Varoquaux, O. 274(1983)187
Chapman, R.A.
Chiral-phase HPLC separation of enantiomers of pyrethroid insecticide esters derived from α-cyano-3-phenoxybenzyl alcohol 258(1983)175
Charette, C., McGilveray, I.J. and Mainville, C.
Simultaneous determination of disopyramide and its mono-N-dealkyl metabolite in plasma and urine by HPLC 274(1983)219
Chasseaud, L.F., see Brodie, R.R. 274(1983)179
Chávez, M.A., see Enríquez, R.G. 258(1983)297
Cheetham, N.W.H. and Dube, V.E.
Preparation of lacto-N-neotetraose from human milk by HPLC 262(1983)426
Cheetham, N.W.H., see Annison, G. 264(1983)137
Chen, H.-C., see Shimohigashi, Y. 266(1983)555
Chen, S.-H., see Wu, H.-L. 269(1983)183
Chen-Marotel, J., Blouquit, Y., Rosa, R. and Calvin, M.-C.
Purification of human erythrocyte phosphoglycerate kinase by dye ligand affinity chromatography 258(1983)213
Cheng, M.-L. and Poole, C.F.
Minor component tablet analysis by HPTLC 257(1983)140
Cheng, Z.B., see Mazzo, D.J. 269(1983)11
Cherchi, M.L. de, see De Cherchi, M.L. 268(1983)539
Chernysheva, T.Y., see Berezkin, V.G. 251(1982)227
Chiantore, O. and Guaita, M.
Size exclusion chromatography of polymer molecules on microparticulate silica gels: a comparative study 260(1983)41
Chiàvari, G. and Pastorelli, L.
GC behaviour of hydroxynaphthalenes and derivatives on liquid crystal stationary phases 262(1983)175
Chiavari, G., see Concialini, V. 258(1983)244
Chibata, I., see Minobe, S. 262(1983)193
Chimenti, F., see Amato, A. 270(1983)387
Chong, P.C.S., see Cachia, P.J. 266(1983)651
Chortyk, O.T., see Arrendale, R.F. 254(1983)63
Chou, F.-T.E., see Friedman, R.D. 252(1982)283
Choudhary, V.R.
Temperature-programmed desorption of

organic bases on NaY zeolite under chromatographic conditions 259(1983)283
Choudhary, V.R.
GC adsorption-desorption techniques for measuring acid strength distribution on solid catalysts 268(1983)207
Chovancová, J., Krupčík, J., Rattay, V. and Garaj, J.
GC of tributyltin(IV) N,N-dialkyldithiocarbamates 256(1983)465
Chrétien, M., see Dennis, M. 266(1983)163
Chrétien, M., see Seidah, N.G. 266(1983)213
Christensen, R.G., White, E.V., Meiselman, S. and Hertz, H.S.
Quantitative trace analysis by reversed-phase LC-MS 271(1983)61
Christiansen, A.L. and Rasmussen, K.E.
Screening of hallucinogenic mushrooms with HPLC and multiple detection 270(1983)293
Christmann, K., see Appler, B. 264(1983)445
Chrzanowski, W., see Przyjazny, A. 262(1983)199
Chudhabuddhi, C., see Anukarahanonta, T. 275(1983)387
Chum, H.L., see Himmel, M.E. 267(1983)249
Chung, B.-G., Paik, W.K. and Kim, S.
Simple separation of adenine and adenosyl-sulfur compounds by HPLC 264(1983)321
Chung, T.G., see Takagi, T. 272(1983)279
Churáček, J., see Jandera, P. 262(1983)121
Churáček, J., see Komárek, K. 252(1982)293, 262(1983)316
Churchill, F.C. II, Mount, D.L. and Schwartz, I.K.
Determination of chloroquine and its major metabolite in blood using perfluoroacylation followed by fused-silica capillary GC with nitrogen-sensitive detection 274(1983)111
Chvalovský, V., see Nondek, L. 268(1983)395
Ciccioli, P. and Tappa, R.
Liquid modifiers in reversed-phase LC with graphitized carbon black adsorbents 269(1983)47
Cillard, J., see Koskas, J.P. 258(1983)280
Cillard, P., see Koskas, J.P. 258(1983)280
Citti, L., Gervasi, P.G., Turchi, G., Mariani, L. and Durante, M.
Improved method for determination of 5-methylcytosine by ion-pair reversed-phase HPLC 261(1983)315
Ciucanu, I. and Kerek, F.
Method for the selective GC determination of the free fatty acids from lipid mixtures (in German) 257(1983)101
Claessens, H.A., Van Thiel, M., Westra, P. and Soeterboek, A.M.
HPLC determination of galanthamine, a long-acting anticholinesterase drug, in serum, urine and bile 275(1983)345
Claeys, M., see Van Bockstaele, M. 275(1983)11
Clancey, C.J., Owen-Fett, C., Farley, D.B. and Van Orden, D.E.
HPLC separation of catechol estrogens: use as a screening procedure for evaluation of *in vitro* metabolism of [^{3}H]estradiol 256(1983)335
Clark, A.I., McIntyre, A.E., Lester, J.N. and Perry, R.
Evaluation of a Tenax GC sampling procedure for collection and analysis of vehicle-related aromatic and halogenated hydrocarbons in ambient air 252(1982)147
Clark, C.R., see Buckingham, D.A. 262(1983)219
Clark, W.D., see Knox, M.J. 265(1983)357
Clausen, S., Olsen, O. and Sørensen, H.
Separation of aromatic choline esters by HPLC 260(1983)193
Clements, N.C. Jr., see Lonsdorfer, M. 266(1983)129
Clements, P.R., Mahuran, D.J. and Hopwood, J.J.
Improved concanavalin A-Sepharose elution by specific readsorption of glycoproteins 261(1983)77
Co, H.T., see Bhat, P.V. 260(1983)129
Co-Sarno, M.E., Tapang, M.A. and Luckhurst, D.G.
Determination of polymer and purification of albumin by HPLC 266(1983)105
Coassolo, P., Aubert, C. and Cano, J.P.
Simultaneous assay of triazolam and its main hydroxy metabolite in plasma and urine by capillary GC 274(1983)161
Coates, M.L., see Hunt, D.F. 271(1983)93
Cobelli, L., see De Pascale, A. 256(1983)352
Cocco, G., see Betti, A. 259(1983)433
Cockrum, P.A. and Edgar, J.A.
HPLC comparison of the tunicaminyluracil-based antibiotics corynetoxin, tunicamycin, streptovirudin and MM 19290 268(1983)245
Cohen, K.A., see Phelan, M.A. 266(1983)55
Cohn, L.J., see Biffar, S. 257(1983)400
Coleman, D.R., Rose, L.M., Meyers, W.E. and Fowler, W.K.
Rapid, sensitive, GC determination of diethyl malonate and diethyl succinate in water facilitated by sorbent-tube preconcentration 256(1983)363
Colin, C., see Doare, L. 274(1983)403
Colin, H., Krstulović, A., Guiochon, G. and Yun, Z.
Stationary phase effects in reversed-phase LC 255(1983)295
Colin, H., see Guiochon, G. 265(1983)159
Colin, H., see Stolyhwo, A. 265(1983)1
Colin, P., Sirois, G. and Lelorier, J.
HPLC determination of dipotassium clorazepate and its major metabolite nordiazepam in plasma 273(1983)367
Collawn, J.F. Jr., see Gowan, L.K. 264(1983)463
Collinge, A. and Noirfalise, A.
Determination of thiabendazole residues in marmalades by HPLC 257(1983)416
Collinge, A., see Noirfalise, A. 274(1983)417
Collins, M., Fu, X.-C., Greig, N. and Hellmann, K.
Determination of razoxane by HPLC 274(1983)434

Collins, M.G., see Carnegie, P.R. 261(1983)153
Colussi, D., see Sioufi, A. 275(1983)201
Combellas, C., Bayart, H., Jasse, B., Caude, M. and Rosset, R.
Coupling of a high-performance liquid chromatograph with a Fourier transform IR detector 259(1983)211
Comet, F., see Miribel, L. 268(1983)321
Concialini, V., Chiavari, G. and Vitali, P.
Electrochemical detection in HPLC analysis of aromatic amines 258(1983)244
Concin, R., see Burtscher, E. 252(1982)167
Conder, J.R.
Design procedure for preparative and production GC 256(1983)381
Conder, J.R., Fruitwala, N.A. and Shingari, M.K.
Thermal decomposition of polyethylene glycol 20M and essential oils in GLC and the effect of traces of oxygen 269(1983)171
Conder, J.R., Rees, G.J. and McHale, S.
Evaluation of methods of measuring GLC retention on skewed peaks 258(1983)1
Cone, E.J., Darwin, W.D. and Buchwald, W.F.
Assay for codeine, morphine and ten potential urinary metabolites by GC-mass fragmentography 275(1983)307
Congote, L.F.
Dansylation and HPLC separation of phosphoserine, phosphothreonine and phosphotyrosine from ^{32}P-labeled protein hydrolyzates 253(1982)276
Connett, B.E., see White, P.C. 265(1983)293
Connolly, M.J., Knighton, W.B. and Grimsrud, E.P.
Effect of applied fields on positive ions in the pulsed electron-capture detector 265(1983)145
Conte, J.E. Jr., see Noonan, I.A. 273(1983)458
Cook, N.J. and Jowett, D.A.
Determination of valproic acid in human serum by GLC on OV-17 using nitrogen-specific detection 272(1983)181
Cooke, M., see Burrows, R. 260(1983)168
Cooke, N.H.C., Archer, B.G., O'Hara, M.J., Nice, E.C. and Capp, M.
Effects of chain length and carbon load on the performance of alkyl-bonded silicas for protein separations 255(1983)115
Cooper, E.H., see Lindblom, H. 266(1983)187, 273(1983)107
Cooperman, B.S., see Kerlavage, A.R. 266(1983)225
Coppenhaver, D.H., see Ahmed, A.E. 259(1983)169
Coppi, G., see Pellegatta, G. 269(1983)33
Coppi, S., Betti, A., Blo, G. and Bighi, C.
Influence of thermal pre-treatment on adsorption properties of porous polymer air samplers 267(1983)91
Coppi, S., see Betti, A. 259(1983)433
Cordonnier, P., see Spreux-Varoquaux, O. 274(1983)187
Corina, D.L. and Isaac, K.
GC and MS properties of naphthalenemethyl esters and cyclohexanemethyl esters of organic acids 260(1983)51
Corrado, T., see Lamberto, S. 270(1983)324
Corran, P.H., see Johnson, E.A. 264(1983)291
Cortes, H.J.
Effect on column efficiency of packing capillary columns with inert spheres for use in LC 264(1983)258
Costa, J.L., see Fay, D.D. 252(1982)338
Cotter, R.J., see Fenselau, C. 271(1983)3
Cotton, M.L. and Down, G.R.B.
Reversed-phase HPLC of sulindac and related compounds using a computer simulation 259(1983)17
Čoupek, J., see Mikeš, O. 261(1983)363
Čoupek, J., see Vrátný, P. 254(1983)143, 257(1983)23
Couperwhite, I., see Annison, G. 264(1983)137
Couri, D., see Mousa, S. 267(1983)191
Couso, R.O., see Alperin, D.M. 265(1983)193
Cox, H.C., see Klok, J,. 253(1982)55
Crain, P.F., see Sethi, S.K. 254(1983)109
Cramers, C.A., see Schutjes, C.P.M. 253(1982)1
Croft, K.D., see Barden, A.E. 275(1983)229
Cronin, D.A., see Caplan, P.J. 267(1983)19
Crowley, S.C. and Walters, R.R.
Determination of immunoglobulins in blood serum by high-performance affinity chromatography 266(1983)157
Cserháti, T., Bordás, B., Fenyvesi, É. and Szejtli, J.
Effect of water-soluble β-cyclodextrin polymer on the lipophilicity of polymyxine examined by reversed-phase TLC 259(1983)107
Cserháti, T., Darwish, Y.M. and Matolcsy, G.
Effect of support characteristics on the determination of the lipophilicity of some neutral, acidic and alkaline compounds by reversed-phase TLC 270(1983)97
Csuma, A., see Grou, E. 260(1983)502
Cuchillo, C.M., see Nogués, M.V. 268(1983)255
Culbertson, C.R., see Rodriguez, P.A. 264(1983)393
Cummings, R.G., see Hull-Ryde, E.A. 275(1983)411
Cunico, R.L. and Schlabach, T.
Comparison of ninhydrin and *o*-phthalaldehyde post-column detection techniques for HPLC chromatography of free amino acids 266(1983)461
Cupps, T.L., see Schroeder, W. III 254(1983)315
Czech, B., see Ogierman, L. 268(1983)144
Czelakowski, W., see Kusz, P. 254(1983)163
Czernia, B., see Kopp, B. 257(1983)137
Czerwiński, A., Andruszkiewicz, R. and Borowski, E.
Differentiation of N^{α}- and N^{β}-substituted α, β-diaminopropionic acids 256(1983)372
Czerwinski, E.W. and Risk, M.
Effect of sodium hydroxide on the binding of NADP-isocitrate dehydrogenase to Matrex Gel Red-A 261(1983)134
Czuppon, A.B., see Dietl, J. 275(1983)423

D

Da, S.L., Vialle, J., Tralongo, H. and Longeray, R.
Retention behaviour of bile acids in ion suppression and ion-pair chromatography on bonded phases 268(1983)1
Dadáková, K., Hartl, J. and Waisser, K.
Relationship between R_M values and hydrophobicity. Chromatographic behaviour of crotonolactones 254(1983)277
Dal Bò, L., see Ascalone, V. 273(1983)357
Dalene, M., see Skarping, G. 270(1983)207
Dalgaard, L., Nordholm, L. and Brimer, L.
Enzymatic post-column cleavage and electrochemical detection of glycosides separated by HPLC 265(1983)183
Dalla Libera, L., Betto, R. and Biral, D.
Peptide mapping of myosin light chains by HPLC 264(1983)164
D'Amato, G., see Castello, G. 254(1983)69, 269(1983)153
D'Amore, P.A., see Sullivan, R.C. 266(1983)301
Daniel, J.Y., see Abalain, J.H. 274(1983)305
Danielson, N.D., see Morgan, D.K. 262(1983)265
Danigel, H., see Jungclas, H. 271(1983)35
Danish, R.K., see Tserng, K.-Y. 272(1983)233
Dannecker, W., see Spitzer, T. 267(1983)167
Dano, S.D., see Chambon, P. 259(1983)372
Darney, K.J. Jr., Wing, T.-Y. and Ewing, L.L.
Simultaneous measurement of four testicular Δ^4-3-ketosteroids by isocratic HPLC with on-line UV absorbance detection 257(1983)81
Darragh, A., see Brodie, R.R. 274(1983)179
Dart, R.K., see Offem, J.O. 260(1983)109
Darwin, W.D., see Cone, E.J. 275(1983)307
Darwish, Y.M., see Cserháti, T. 270(1983)97
Davankov, V.A., see Berezin, B.B. 261(1983)301
Davankov, V.A., see Kurganov, A.A. 261(1983)223
Davankov, V.A., see Roumeliotis, P. 255(1983)51
Davidson, J., see Calam, D.H. 266(1983)293
Davis, C.L.
Determination of ketanserin in plasma by reversed-phase high-performance liquid chromatography 275(1983)232
Davis, C.M. and Fenimore, D.C.
Determination of fluphenazine in plasma by HPTLC 272(1983)157
Davis, H.M., see Wisneski, H.H. 255(1983)455
Davis, J.M., see Giddings, J.C. 255(1983)359
Davis, K.L., see Hsieh, J.Y.K. 274(1983)388
Davis, P.F., see Ryan, P.A. 275(1983)31
Davis, T.P., Veggeberg, S.K., Hameroff, S.R. and Watts, K.L.
Sensitive and quantitative determination of plasma doxepin and desmethyldoxepin in chronic pain patients by GC and MS 273(1983)436
Davis, T.P., see Peng, Y.-M. 273(1983)410
Davis, T.P., see Russell, D.H. 273(1983)263
De Bernardi, M., see Allievi, C. 261(1983)311
De Brabander, H.F. and Verbeke, R.
Determination of oxazolidine-2-thiones in biological fluids in the ppb range 252(1982)225
De Bree, H., see Ruijten, H.M. 252(1982)193
De Bruyne, M.M.A., see Verweij, A.M.A. 270(1983)337
De Cherchi, M.L., see Gessa, C. 268(1983)539
De Jong, G.J., see Werkhoven-Goewie, C.E. 255(1983)79
De Kok, A., Geerdink, R.B. and Brinkman, U.A.T.
Improved interface for LC-electron-capture detector coupling. I 252(1982)101
De Leenheer, A.P., see Delbeke, F.T. 273(1983)141
De Leenheer, A.P., see Van Lancker, M.A. 254(1983)45
De Leeuw, J.W., see Klok, J,. 253(1982)55
De Ligny, C.L., see Spanjer, M.C. 253(1982)23
De Loose, R., see Vande Casteele, K. 259(1983)291
De los Angeles Barcelón, M., McCoy, R.E. and Donselman, H.M.
New LC approaches for free amino acid analysis in plants and insects. II. TLC analysis for eighteen varieties of palm trees 260(1983)147
De Man, B.M., see Bindels, J.G. 252(1982)255
De Moreno, M.R., see Smith, R.V. 274(1983)376
De Pascale, A., Cobelli, L., Paladino, R., Pastorello, L., Frigerio, A. and Sala, C.
Quantitative determination of airborne 2,4-toluene diisocyanate 256(1983)352
De Potter, W.P., see Van Bockstaele, M. 275(1983)11
De Ruiter, C., see Werkhoven-Goewie, C.E. 255(1983)79
De Silva, J.A.F.
Analytical strategies for therapeutic monitoring of drugs and metabolites in biological fluids. Plenary lecture 273(1983)19
De Silva, J.A.F., see Puglisi, C.V. 275(1983)319
De Vries, G., see Brinkman, U.A.T. 258(1983)43, 265(1983)105
De Vries, J.X., see Harenberg, J. 261(1983)287
De Vries, K., see Keyzer, J.J. 275(1983)261
De Zeeuw, R.A., see Hageman, R.J.J. 274(1983)239
De Zeeuw, R.A., see Overzet, F. 267(1983)329
DeAngelis, N.J., see Bissinger, J.M. 268(1983)102
Debackere, M., see Delbeke, F.T. 273(1983)141
Déchaux, J.C.
Device for GC analysis, with mass balance, of gaseous reacting mixtures in a static reactor 270(1983)318
Decheva, R. and Milkova, A.
TLC investigation of the interaction between dispersed dyes and hydrotropic agents 270(1983)348
Décsei, L., see Zsadon, B. 270(1983)127

Dedieu, M., Juin, C., Arpino, P.J., Bounine, J.P. and Guiochon, G.
Application of a combined LC-MS instrument using an interface for direct liquid introduction 251(1982)203
Dedieu, M., see Arpino, P.J. 271(1983)43
Deelder, R.S., Kuijpers, A.T.J.M. and Van den Berg, J.H.M.
Evaluation and comparison of reaction detectors 255(1983)545
Deiana, S., see Gessa, C. 268(1983)539
Delahaye, P. and Verzele, M.
Analysis of gallic, digallic and trigallic acids in tannic acids by HPLC 265(1983)363
Delahaye, P., see Verzele, M. 268(1983)469
Delbeke, F.T., Debackere, M., Jonckheere, J.A.A. and De Leenheer, A.P.
Pentafluorobenzoyl derivatives of doping agents. I. Extractive benzoylation and GC with electron-capture detection of primary and secondary amines 273(1983)141
Delfino, M.R., see Castells, R.C. 259(1983)413
Demarchi, F., see Allievi, C. 261(1983)311
Demers, L.M., see Luderer, J.R. 273(1983)402
Deml, M., see Gebauer, P. 267(1983)455
Demopoulos, C.A., Moschidis, M.C. and Kritikou, L.G.
TLC separation of phosphonolipids from their phospholipid analogues 256(1983)378
Demopoulos, C.A., see Moschidis, M.C. 259(1983)504
Dennis, M., Lazure, C., Seidah, N.G. and Chrétien, M.
Chracterization of β-endorphin immunoreactive peptides in rat pituitary and brain by coupled gel and reversed-phase HPLC 266(1983)163
Dennis, M., see Seidah, N.G. 266(1983)213
DePaolis, A.M.
Determination of all-*trans*- and 13-*cis*-retinoic acids by two-phase, two-dimensional TLC in creams and by HPTLC in gel formulations 258(1983)314
Deppermann, K.L., see Stover, F.S. 269(1983)198
Dernick, R., see Heukeshoven, J. 252(1982)241
Desideri, P.G., see Lepri, L. 260(1983)383, 265(1983)328, 268(1983)493
Dessi, A., see Gessa, C. 268(1983)539
DeStefano, J.J., see Larmann, J.P. 255(1983)163
DeStefano, J.J., see Stout, R.W. 261(1983)189
Deva, M.M., see Buckingham, D.A. 262(1983)219
Devant, G., see Krien, P. 251(1982)129
Dewaele, C. and Verzele, M.
Influence of the particle size distribution of the packing material in reversed-phase HPLC 260(1983)13
Dhanesar, S.C. and Poole, C.F.
Synthesis and chromatographic properties of cyanophenyl ethers 252(1982)91
Dhanesar, S.C. and Poole, C.F.
Stationary phase properties of cyanophenyl ethers 253(1982)255
Dhanesar, S.C. and Poole, C.F.
Synthesis and stationary phase properties of bromophenyl ethers 267(1983)293
Dhanesar, S.C. and Poole, C.F.
Preparation of efficient packed columns with a polyperfluoroalkyl ether stationary phase 267(1983)388
Diana, P., see Cabras, P. 256(1983)176
DiCesare, J.L. and Ettre, L.S.
New ways to increase the specificity of detection in LC (Review) 251(1982)1
Didriksen, L., see Mazzo, D.J. 270(1983)191
Dieterle, W. and Faigle, J.W.
Multiple inverse isotope dilution assay for oxprenolol and nine metabolites in biological fluids 259(1983)301
Dieterle, W. and Faigle, J.W.
Multiple inverse isotope dilution assay for the stereospecific determination of *R*(+)- and *S*(-)-oxprenolol in biological fluids 259(1983)311
Dietl, J., Czuppon, A.B. and Königsmann, W.
Separation of porcine zona pellucida components by HPLC on styro-gel protein columns 275(1983)423
Dietrich, P., see Müller, U. 259(1983)243
Dietz, M., see Andermann, G. 272(1983)299
Dijk, A. van, see Van Dijk, A. 272(1983)421
Dik, J., see Van Amsterdam, J.G.C. 258(1983)165
Dilks, C.H. Jr., see Kirkland, J.J. 255(1983)255
Dillen, L., see Van Bockstaele, M. 275(1983)11
Dilley, R.A., see Tandy, N.E. 266(1983)599
Dilli, S. and Maitra, A.M.
Development of a simultaneous GC method for the analysis of copper, nickel and vanadium at the ultra-trace level 254(1983)133
Dilli, S. and Patsalides, E.
GC of iron(III) chelates of hexadentate Schiff bases 270(1983)354
Dilli, S. and Robards, K.
Behaviour of aromatic β-diketones and their metal chelates on silica gel layers 270(1983)313
Dilli, S., see Hutchins, S.R. 252(1982)185
Dimmler, A. and Strausz, O.P.
Enrichment of polycyclic terpenoid, saturated hydrocarbons from petroleum by adsorption on zeolite NaX 270(1983)219
Diquet, B., see Doare, L. 274(1983)403
Diquet, B., see Merdjan, H. 273(1983)475
Diquet, B., see Savoie, F. 261(1983)305
Dizdaroglu, M. and Krutzsch, H.C.
Comparison of reversed-phase and weak anion-exchange HPLC methods for peptide separations 264(1983)223
DiZerega, G.S., see Campeau, J.D. 262(1983)334
Djerassi, C., see Sugnaux, F.R. 251(1982)189
Doare, L., Colin, C. and Diquet, B.
Determination of antipyrine in human plasma and saliva by HPLC (in French) 274(1983)403
Dobashi, A. and Hara, S.
Chiroselective complexation based on

hydrogen bonds for the resolution of D- and L-amino acid derivatives by silica gel LC 267(1983)11
Doi, T., see Motohashi, M. 253(1982)129
Doi, T., see Ôi, N. 254(1983)282, 257(1983)111, 259(1983)487, 265(1983)111
Domeij-Nyberg, B., see Bergqvist, Y. 272(1983)137
Donatella, D., see Lamberto, S. 270(1983)324
Dondi, F., see Betti, A. 259(1983)433
Dondi, F., see Blo, G. 257(1983)69
Doner, L.W. and Hsu, A.-F.
HPLC separation of alkaloids from *Papaver somniferum* on a Zorbax NH_2 analytical column 253(1982)120
Donkerbroek, J.J., Van Eikema Hommes, N.J.R., Gooijer, C., Velthorst, N.H. and Frei, R.W.
Phosphorescence detection of polychloronaphthalenes and polychlorobiphenyls in LC 255(1983)581
Donselman, H.M., see De los Angeles Barcelón, M. 260(1983)147
Doree, G., see Hartmann, L. 273(1983)235
Doubet, R.S. and Quatrano, R.S.
Urea-polyacrylamide gel electrophoresis of alginic acid 264(1983)479
Douse, J.M.F.
Trace analysis of explosives at the low picogram level using silica capillary column GC with thermal energy analyser detection 256(1983)359
Down, G.R.B., see Cotton, M.L. 259(1983)17
Doyle, T.D., see Wainer, I.W. 259(1983)465, 261(1983)123, 264(1983)154, 268(1983)107
Drenth, B.F.H., see Bruins, A.P. 271(1983)71
Drenth, B.F.H., see Overzet, F. 267(1983)329
Dressler, M.
Effect of detector temperature on flame photometric detector behaviour 262(1983)77
Dressler, M.
Hydrocarbon and water quenching of the flame photometric detector response 270(1983)145
Dreyer,R.N., see Hadfield, A.F. 257(1983)1
Driscoll, J.N., see Krull, I.S. 260(1983)347
Drucker, D.B., see Tavakkol, A. 274(1983)37
Drumheller, A., see Marceau, F. 266(1983)173
D'Souza, F.C., see Mirashi, S.V. 268(1983)352
Dube, V.E., see Cheetham, N.W.H. 262(1983)426
Dubois, J.P., see Menge, G. 275(1983)189
Dubský, H., see Černíková, M. 273(1983)202
Duch, D.S., see Woolf, J.H. 274(1983)398
Dufek, P. and Smolková, E.
HPLC behaviour of N-substituted phthalimides. Calculation of capacity factors for members of the homologous series 257(1983)247
Duffield, A.M., see Low, G.K.C. 254(1983)123, 261(1983)345
Duffield, A.M., see Netting, A.G. 257(1983)174
Dumbroff, E.B., Walker, M.A. and Dumbroff, P.A.
Choice of methods for the determination of abscisic acid in plant tissue 256(1983)439
Dumbroff, P.A., see Dumbroff, E.B. 256(1983)439
Dunn, D.L. and Thompson, R.E.
Reversed-phase HPLC separation for pilocarpine and isopilocarpine using radial compression columns 264(1983)264
Durante, M., see Citti, L. 261(1983)315
Durieux, J.P., see Viville, R. 262(1983)411
Ďurišová, M., see Šoltés, L. 273(1983)213
DuSapin, K.S., see Robie, N.W. 270(1983)366
Dutt, M.C., Lo, D.S.-T., Ng, D.L.K. and Woo, S.-O.
GC study of the urinary codeine-to-morphine ratios in controlled codeine consumption and in mass screening for opiate drugs 267(1983)117
Dye, D.M., see Sista, H.S. 273(1983)464
Dyr, J.E., Fořtová, H., Vodrážka, Z. and Kornalík, F.
Fast protein LC of *Echis carinatus* venom 261(1983)163
Dyr, J.E., see Fořtová, H. 259(1983)473, 260(1983)522
Dzido, T., see Huber, J.F.K. 271(1983)27

E

Eadie, J., see Graham, D.J.M. 275(1983)211
Echols, R.E., Miller, R.H., Winzer, W., Carmen, D.J. and Ireland, Y.R.
GC determination of thiamine in meats, vegetables and cereals with a nitrogen-phosphorus detector 262(1983)257
Eckers, C., see Alcock, N.J. 251(1982)165
Eddy, C.L., see Rodriguez, P.A. 264(1983)393
Edelson, J., Palace, G. and Park, G.
HPLC determination of iohexol in plasma, urine and feces 274(1983)428
Edelson, J., see Park, G.B. 273(1983)481
Edgar, J.A., see Cockrum, P.A. 268(1983)245
Edirisinghe, E.A.M.K., see Strömberg, L. 258(1983)65
Edman, D.C. and Brooks, J.B.
GLC-frequency pulse-modulated electron-capture detection in the diagnosis of infectious diseases 274(1983)1
Edward-Inatimi, E.B.
Multi-element analysis of trace metals in some environmental samples by solvent extraction and HPLC of metal chelate complexes 256(1983)253
Ehrsson, H., see Eksborg, S. 274(1983)263
Eikema Hommes, N.J.R. van, see Van Eikema Hommes, N.J.R. 255(1983)581
Eisenbeiss, F., see Jost, W. 256(1983)182
Eksborg, S., Ehrsson, H. and Lindfors, A.
LC determination of mitomycin C in human plasma and urine 274(1983)263

Eksborg, S., see Johansson, M. 275(1983)355
El Rassi, Z. and Horváth, C.
High-performance displacement chromatography of nucleic acid fragments in a tandem enzyme reactor-liquid chromatograph system 266(1983)319
El Rassi, Z., see Horváth, C. 255(1983)273
El Rassi, Z., see Jacobson, J. 253(1982)252
Elchisak, M.A.
Determination of conjugated compounds by LC with electrochemical detection using post-column hydrolysis. Application to dopamine sulfate isomers 255(1983)475
Elchisak, M.A.
Determination of dopamine-O-sulfate and norepinephrine-O-sulfate isomers and serotonin-O-sulfate by HPLC using dual-electrode electrochemical detection 264(1983)119
Elchuk, S., see Cassidy, R.M. 262(1983)311
Eliason, M.S., see Lee, Y.-C. 269(1983)28
Eller, T.D., see Balard, K.D. 275(1983)161
Ellingson, J.D., see Russell, D.H. 273(1983)263
Elliott, M.C., see Blakesley, D. 258(1983)155
Ellis, S., see Gaffney, J.S. 262(1983)321
Emken, E.A., see Lanser, A.C. 256(1983)460
Endo, M., see Naito, K. 253(1982)205, 268(1983)359
Engels, M., see Plomp, T.A. 273(1983)379
Engfeldt, B., see Hjerpe, A. 259(1983)334
Englmaier, P.
Nitrate analysis by GLC using the nitration of 2,4-dimethylphenol in sulphuric acid 270(1983)243
Enns, R.K., see Herring, S.W. 266(1983)249
Enríquez, R.G., Escobar, L.I., Romero, M.L., Chávez, M.A. and Lozoya, X.
Determination of grandiflorenic acid in organic and aqueous extracts of *Montanoa tomentosa* (zoapatle) by reversed-phase HPLC 258(1983)297
Eppert, G. and Schinke, I.
LC separation of classes of higher boiling aromatic compounds by means of compact phases that form charge-transfer complexes (in German) 260(1983)305
Erbersdobler, H.F., Greulich, H.-G. and Trautwein, E.
Determination of taurine in foods and feeds using an amino acid analyser 254(1983)332
Erni, F.
LC-MS in the pharmaceutical industry: objectives and needs 251(1982)141
Ernst, K., see König, W.A. 253(1982)267
Ernst, W., see Mokeyeva, R.N. 264(1983)272
Erp, P.E.J. van, see Van Erp, P.E.J. 259(1983)338
Escobar, L.I., see Enríquez, R.G. 258(1983)297
Eskay, R.L., see Goldman, M.E. 275(1983)407
Etheridge, M.O., see Carnegie, P.R. 261(1983)153
Ettre, L.S., see DiCesare, J.L. 251(1982)1
Ettre, L.S., see Johansen, N.G. 256(1983)393
Ettre, L.S., see Miller, R.L. 259(1983)393, 264(1983)19
Evans, R.C., see Burns, W.F. 269(1983)1
Evans, W.E., see Sinkule, J.A. 274(1983)87
Everaerts, F.M., see Reijenga, J.C. 260(1983)241, 267(1983)75, 267(1983)85
Everaerts, F.M., see Verheggen, T.P.E.M. 260(1983)471
Evershed, R.P., see Attygalle, A.B. 260(1983)411
Ewing, L.L., see Darney, K.J. Jr. 257(1983)81
Eyk, J. van, see Van Eyk, J. 266(1983)651

F

Fabbiani, S., see Rappuoli, R. 268(1983)543
Facklam, C., Pracejus, H., Oehme, G. and Much, H.
Resolution of enantiomers of amino acid derivatives by HPLC in a silica gel bonded chiral amide phase 257(1983)118
Fagerlund, C., see Hartvig, P. 274(1983)355
Fägerstam, L.G., Lizana, J., Axiö-Fredriksson, U.-B. and Wahlström, L.
Fast chromatofocusing of human serum proteins with special reference to α_1-antitrypsin and Gc-globulin 266(1983)523
Fägerstam, L.G., see Haff, L.A. 266(1983)409
Faigle, J.W., see Dieterle, W. 259(1983)301, 259(1983)311
Fanali, S., Cardaci, V. and Ossicini, L.
Paper electrophoretic study of ion-pair formation. XIV. Resolution of optically active cobalt(III) complexes 265(1983)131
Farid, N.A. and White, S.M.
Determination of mexiletine and its metabolites in serum by LC with fluorescence detection 275(1983)458
Farinotti, R., Siard, P., Bourson, J., Kirkiacharian, S., Valeur, B. and Mahuzier, G.
4-Bromomethyl-6,7-dimethoxycoumarin as a fluorescent label for carboxylic acids in chromatographic detection 269(1983)81
Farley, D.B., see Clancey, C.J. 256(1983)335
Farooqui, J.Z., see Paik, W.K. 256(1983)331
Farrell, B.M. and Jefferies, T.M.
An investigation of HPLC methods for the analysis of amphetamines 272(1983)111
Faure, A., Caron, M. and Tepenier, D.
Improved buffer for the chromatographic separation of Factor VIII coagulant 257(1983)387
Fausnaugh, J., see Kopaciewicz, W. 266(1983)3
Fay, D.D., Costa, J.L. and Launay, J.-M.
TLC separation and quantitation of radioactively labelled 5-hydroxytryptamine, 5-hydroxytryptamine-O-sulfate, and 5-hydroxyindoleacetic acid 252(1982)338

Fearnley, I., see Miners, J.O. 275(1983)89
Fell, A.F., Scott, H.P., Gill, R. and Moffat, A.C.
Applications of rapid-scanning multichannel detectors in chromatography. Plenary lecture 273(1983)3
Felt, V., see Hušek, P. 252(1982)217
Fenichel, L., see Trézl, L. 269(1983)40
Fenimore, D.C., see Davis, C.M. 272(1983)157
Fenselau, C., Cotter, R.J., Heller, D. and Yergey, J.
Ionization of middle mass molecules: ejection of ions from solution 271(1983)3
Fenyvesi, É., see Cserháti, T. 259(1983)107
Ferrara, F.J. Jr., see Puglisi, C.V. 275(1983)319
Ferrett, J., see Baker, R.W.R. 273(1983)421
Ferretti, C., see Nota, G. 262(1983)360
Feste, A., Hoffman, W. and Gan, J.C.
Proteinase inhibitory assays of serum using high-performance size exclusion chromatography 275(1983)283
Fetzer, J.C., see Biggs, W.R. 260(1983)137
Feyen, J.H.M., Van Erp, P.E.J. and Mier, P.D.
Rapid technique for the radiometric assay of phospholipase A_2 259(1983)338
Filatova, G.N., Koropalov, V.M. and Kovaleva, N.V.
GC determination of ultra-trace amounts of halogen-containing hydrocarbons in the atmosphere 264(1983)129
Fiore, C., see Mayhew, J.W. 274(1983)271
Fish, W.W., see Gowan, L.K. 264(1983)463
Fitos, I., Simonyi, M., Tegyey, Z., Ötvös, L., Kajtár, J. and Kajtár, M.
Resolution by affinity chromatography: stereoselective binding of racemic oxazepam esters to human serum albumin 259(1983)494
Flatmark, T., see Haavik, J. 257(1983)361
Fleet, B., see Gunasingham, H. 261(1983)43
Floch, H.H., see Abalain, J.H. 274(1983)305
Flor, S. Campos, see Campos Flor, S. 272(1983)315
Földi, P., see Graeve, L. 268(1983)506
Folen, V.A., see Nakamura, G.R. 264(1983)336
Fong, G.W.K., Johnson, R.N. and Kho, B.T.
Study on the rate of epimerization of amoxicillin β-penicilloic acid to its α-form in aqueous solutions using HPLC 255(1983)199
Fong, M.H., Abbiati, A., Benfenati, E. and Caccia, S.
Quantitative analysis of minaprine and some of its metabolites with application to kinetic studies in rats 259(1983)141
Ford, A.W., see Calam, D.H. 266(1983)293
Ford, L.A., see Heitzmann, M.W. 267(1983)213
Forman, W.B., see Ingalls, S.T. 274(1983)366
Fornstedt, N.
Chromatographic and spectrometric studies on conversion products of 5-hydroxyindole-3-acetic acid 270(1983)359
Fořtová, H., Dyr, J.E., Vodrážka, Z. and Kornalík, F.
Isolation of the prothrombin-converting enzyme from fibrinogenolytic enzymes of *Echis carinatus* venom by chromatographic and electrophoretic methods 259(1983)473
Fořtová, H., Dyr, J.E., Vodrážka, Z. and Kornalík, F.
Fractionation of *Echis carinatus* venom by affinity chromatography on immobilized lectins 260(1983)522
Fořtová, H., see Dyr, J.E. 261(1983)163
Foucher, J.P., see Hutin, M. 265(1983)139
Foucher, J.-P., see Hutin, M. 268(1983)125
Fowler, W.K., see Coleman, D.R. 256(1983)363
Fox, A., Morgan, S.L., Hudson, J.R., Zhu, Z.T. and Lau, P.Y.
Capillary GC analysis of alditol acetates of neutral and amino sugars in bacterial cell walls 256(1983)429
Frank, B.H., Beckage, M.J. and Willey, K.A.
HPLC preparation of single-site carrier-free pancreatic polypeptide hormone radiotracers 266(1983)239
Frank, H., Gerhardt, J., Nicholson, G.J. and Bayer, E.
GC resolution of 2-hydroxycarboxylic acid enantiomers 270(1983)159
Frank, H., see Wang, C. 262(1983)352
Frank, H., see Welsch, T. 267(1983)39
Fransson, B., Grehn, L. and Ragnarsson, U.
HPLC of distamycin A and its primary decomposition products as well as some synthetic analogues 268(1983)347
Franz, A., see Nebinger, P. 265(1983)19
Fraser, M.E., see Siu, K.W.M. 256(1983)455
Frei, R.W., see Donkerbroek, J.J. 255(1983)581
Frei, R.W., see Kok, W.T. 256(1983)17
Frei, R.W., see Little, C.J. 264(1983)183
Frei, R.W., see Werkhoven-Goewie, C.E. 255(1983)79
Frenz, J., see Horváth, C. 255(1983)273
Freudenthal, J., see Levsen, K. 271(1983)51
Fricke, H.S.G. and Oehlenschläger, J.
Separation of lipids from Antarctic krill (*Euphausia superba* Dana) by isocratic HPLC on silica using a flow-program 252(1982)331
Friday, D., see Baust, J.G. 261(1983)65
Friedman, R.D., Nakazawa, H., Chou, F.-T.E., Bachur, N.R. and Ito, Y.
Counter-current chromatography of diaziquone by a horizontal flow-through coil planet centrifuge 252(1982)283
Frigerio, A., see De Pascale, A. 256(1983)352
Friley, B.K., Phelps, J.B. and Kincaid, J.R.
GPC of porphyrins and hemins 258(1983)310
Fritz, J.S. and Scott, D.M.
Statistical approach to chromatographic theory (Review) 271(1983)193
Fruitwala, N.A., see Conder, J.R. 269(1983)171
Frydrychová, A., see Mikeš, O. 261(1983)363
Fu, X.-C., see Collins, M. 274(1983)434
Fudano, S., see Kudoh, M. 261(1983)293
Fujii, H., see Fujii, Y. 258(1983)147
Fujii, Y., Fujii, H. and Yamazaki, M.
Separation and determination of cardiac glycosides in *Digitalis purpurea* leaves by micro HPLC 258(1983)147

Fujii, Y., see Kobayashi, N. 252(1982)121
Fujimori, K., see Inoue, K. 274(1983)201
Fujimoto, C., Jinno, K. and Hirata, Y.
LC-spectrometry with the buffer-memory technique 258(1983)81
Fujita, T., see Kawamoto, T. 267(1983)414
Fujita, V.S., see Vensel, W.H. 266(1983)491
Fukagawa, Y., see Okabe, M. 256(1983)447
Fukushige, S., see Kato, Y. 265(1983)342, 266(1983)341
Funae, Y., Akiyama, H., Imaoka, S., Takaoka, M. and Morimoto, S.
Rapid separation and measurement of rat urinary kallikrein by HPLC with a continuous flow enzyme detector 264(1983)249
Funazo, K., see Wu, H.-L. 269(1983)183

G

Gabel, D., see Genieser, H.-G. 269(1983)127
Gaffney, J.S., Premuzic, E.T., Orlando, T., Ellis, S. and Snyder, P.
GC-circular dichroism system for detection of optically active substances 262(1983)321
Gagliardi, L., see Amato, A. 270(1983)387
Gagliardi, L., see Cavazzutti, C. 257(1983)166
Gagliardi, L., see Cavazzutti, G. 268(1983)528
Gál, S., Toth-Martinez, B.L. and Kiss, L.
Use of chromatofocusing for separation of β-lactamases. III. β-Lactamases of the *Bacillus cereus* 569/H strain 264(1983)170
Gál, S., see Kiss, L. 262(1983)379
Gál, S., see Toth-Martinez, B.L. 262(1983)373
Gambertoglio, J.G., see Noonan, I.A. 273(1983)458
Gamerith, G.
GLC determination of N(O,S)-trifluoroacetyl *n*-propyl esters of protein and non-protein amino acids 256(1983)267
Gamerith, G.
Derivatization of amino acids to their N(O,S)-acyl alkyl esters for GLC determination 256(1983)326
Gamerith, G.
GC of various N(O,S) acyl alkyl esters of amino acids 268(1983)403
Games, D.E., see Alcock, N.J. 251(1982)165
Games, M.P.L., see Alcock, N.J. 251(1982)165
Gan, J.C., see Feste, A. 275(1983)283
Ganansia, J., Gillet, G., Padovani, P. and Bianchetti, G.
Improved determination of betaxolol in biological samples by capillary column GC 275(1983)183
Ganjian, I., see Kubo, I. 257(1983)157
Garaj, J., see Chovancová, J. 256(1983)465
Garaj, J., see Lehotay, J. 258(1983)223
Garattini, S., see Caccia, S. 252(1982)310
Gattavecchia, E., Tonelli, D. and Bertocchi, G.
Separation and determination of saturated fatty acids by reversed-phase HPTLC 260(1983)517
Gattavecchia, E., see Amato, A. 270(1983)387
Gattavecchia, E., see Cavazzutti, C. 257(1983)166
Gattavecchia, E., see Cavazzutti, G. 268(1983)528
Gattavecchia, E., see Tonelli, D. 275(1983)223
Gau, W., Ploschke, H.-J. and Wünsche, C.
MS identification of xanthophyll fatty acid esters from marigold flowers (*Tagetes erecta*) obtained by HPLC and Craig counter-current distribution 262(1983)277
Gaydou, E.M., see Bianchini, J.P. 259(1983)150
Gayte-Sorbier, A., see Airaudo, C.B. 261(1983)273
Geahchan, A., see Chambon, P. 259(1983)372
Gebauer, P. and Boček, P.
Zone order in isotachophoresis. The concept of the zone existence diagram and its use in cationic systems 267(1983)49
Gebauer, P., Deml, M., Boček, P. and Janák, J.
Determination of nitrate, chloride and sulphate in drinking water by capillary free-zone electrophoresis 267(1983)455
Geerdink, R.B., see De Kok, A. 252(1982)101
Geiger, H., see Vande Casteele, K. 258(1983)111, 259(1983)291
Gelber, L.R. and Neumeyer, J.L.
Determination of the enantiomeric purity of levodopa, methyldopa, carbidopa and tryptophan by use of chiral mobile phase HPLC 257(1983)317
Genderen, H.H. van, see Van Genderen, H.H. 256(1983)151
Gendreau, M., see Marceau, F. 266(1983)173
Geng, X. and Carr, P.W.
Use of fluorinated bonded phases in reversed-phase HPLC of proteins 269(1983)96
Genieser, H.-G., Gabel, D. and Jastorff, B.
Characterization of silica bonded stationary phases 269(1983)127
Gerhardt, J., see Frank, H. 270(1983)159
German, B., see Mai, J. 254(1983)91
Germershausen, J., Bostedor, R., Liou, R. and Karkas, J.D.
Fractionation of high-molecular-weight proteins with mixed Toyopearl packings 270(1983)383
Gervasi, P.G., see Citti, L. 261(1983)315
Gessa, C., De Cherchi, M.L., Deiana, S., Dessi, A. and Micera, G.
HPLC determination of formic acid in cleavage reactions of carbohydrates 268(1983)539
Gessler, N.N., see Bezzubov, A.A. 273(1983)192
Ghatge, B.B., see Panse, D.G. 264(1983)279
Ghiglione, C., see Calaf, R. 272(1983)385
Ghijsen, R.T., see Overzet, F. 267(1983)329
Ghosh, P. and Thakur, S.
Spray reagents for the detection of steroids

and triterpenoids on thin-layer plates 258(1983)258
Giannessi, S., see Lepri, L. 265(1983)328
Gibbons, A.P., see Hoppel, C.L. 272(1983)43
Giddings, J.C., Chang, J.P., Myers, M.N., Davis, J.M. and Caldwell, K.D.
Capillary LC in field flow fractionation-type channels 255(1983)359
Gilbert, J., see Shepherd, M.J. 261(1983)213
Gilbert, S.G., see Khalil, H.A. 267(1983)101
Gill, R., Qua, S.C. and Moffat, A.C.
HPLC of paraquat and diquat in urine with rapid sample preparation involving ion-pair extraction on disposable cartridges of octadecyl-silica 255(1983)483
Gill, R., see Fell, A.F. 273(1983)3
Gillespie, D.G., see Burrows, R. 260(1983)168
Gillet, G., see Ganansia, J. 275(1983)183
Gilligan, J.P., see Jones, B.N. 266(1983)471
Gilliom, R.D., Whitaker, J.N. and Seyer, J.M.
Separation of myelin basic protein peptide 43-88 and its fragments by analytic and preparative HPLC 254(1983)211
Gilon, C., see Grushka, E. 255(1983)41
Girardin, M. and Metche, M.
Rapid microdetermination of alkoxyl groups by GC. Application to lignin (in French) 264(1983)155
Glad, M., see Hansson, L. 265(1983)37
Gladstone, C.M., see Wong, J.L. 267(1983)303
Glajch, J.L., see Kirkland, J.J. 255(1983)27
Gleispach, H., Mayer, B., Rauter, L. and Wurz, E.
Determination of prostaglandin $F_{2\alpha}$ and 6-oxo-prostaglandin $F_{1\alpha}$ in urine by GC-positive chemical ionisation-MS using stable isotope dilutions with selected ion monitoring 273(1983)161
Gleispach, H., Mayer, B., Rauter, L. and Wurz, E.
Direct coupling of fused silica columns to the ion source of a mass spectrometer applied to studies of arachidonic acid metabolism in human fibroblasts 273(1983)166
Goebel, H., see Stan, H.-J. 268(1983)55
Goldberg, A.P., see Assenza, S.P. 272(1983)373
Goldberg, A.P., see Larmann, J.P. 255(1983)163
Goldman, M.E., Beaulieu, M., Eskay, R.L. and Kebabian, J.W.
Dyes permit immediate evaluation of HPLC system performance. Application to HPLC with radioimmunoassay detection 275(1983)407
Goldstein, A.L., see Low, T.L.K. 266(1983)533
Goldstein, D.S.
Modified sample preparation for HPLC-electrochemical assay of urinary catecholamines 275(1983)174
Golovnya, R.V.
Some analytical problems in flavour research (Review) 251(1982)249
Gonnord, M.-F., Levi, F. and Guiochon, G.
Computer assistance in the selection of the optimum combination of systems for two-dimensional chromatography 264(1983)1
Gonnord, M.F., see Guiochon, G. 255(1983)415
Gonnord, M.F., see Karasek, F.W. 270(1983)227
Gonnord, M.-F., see Zakaria, M. 271(1983)127
Gooding, K.M. and Schmuck, M.N.
Purification of trypsin and other basic proteins by high-performance cation-exchange chromatography 266(1983)633
Gooijer, C., see Donkerbroek, J.J. 255(1983)581
Goossens, J.F. and Van Laere, A.J.
HPLC of isofalvonoid phytoalexins in French Bean (*Phaseolus vulgaris*) 267(1983)439
Gori, F., see Paciotti, M. 270(1983)402
Gorst-Allman, C.P. and Steyn, P.S.
Separation of the mycotoxins α- and β-cyclopiazonic acids using DEAE-cellulose 262(1983)446
Görtz, H.-H., see Seliger, H. 253(1982)65
Gotfred, L., see Schou, O. 254(1983)289
Goto, M., Zou, G. and Ishii, D.
Current amplification in dual electrochemical detection for micro HPLC 268(1983)157
Goto, M., Zou, G. and Ishii, D.
Determination of catecholamines in human serum by micro HPLC with micro precolumn and dual electrochemical detection 275(1983)271
Goto, S., see Shiga, N. 257(1983)151
Gowan, L.K., Collawn, J.F. Jr. and Fish, W.W.
Separation by HPLC of two types of subunit from horse spleen ferritin 264(1983)463
Grachev, M.A., see Baram, G.I. 264(1983)69
Gracy, R.W., see Oray, B. 265(1983)126, 270(1983)253
Graeser, E., see Bischoff, R. 257(1983)305
Graeve, L., Kruppa, J. and Földi, P.
Purification of low-molecular-weight RNAs by high-performance GPC 268(1983)506
Graham, D.J.M., Eadie, J., Leadbetter, B.M. and Metcalf, R.
Simultaneous determination of nafimidone [1-(2-naphthoylmethyl)imidazole], a new anticonvulsant agent, and a major metabolite in plasma by HPLC 275(1983)211
Grasmeijer, G., see Visser, J. 274(1983)372
Gray, T.K., see Thierry-Palmer, M. 262(1983)460
Graydon, J.W. and Grob, K.
How efficient are capillary cold traps? 254(1983)265
Greely, V.J., see Biffar, S. 257(1983)400
Green, T.P. and Marchessault, R.P.
Rapid micromethod for the determination of Evan's blue in human plasma by HPLC 273(1983)426
Greenblatt, D.J., Matlis, R., Abernethy, D.R. and Ochs, H.R.
Improved LC analysis of phenytoin and salicylate using radial compression separation 275(1983)450

Grego, B. and Hearn, M.T.W.
HPLC of amino acids, peptides and proteins. XXXIX. Reversed-phase HPLC analysis of Dns-amino acids: comparison of several different elution systems 255(1983)67
Grego, B., Lambrou, F. and Hearn, M.T.W.
HPLC of amino acids, peptides and proteins. XLVIII. Retention behaviour of tryptic peptides of human growth hormone isolated by reversed-phase HPLC: a comparative study using different chromatographic conditions and predicted elution behaviour based on retention coefficients 266(1983)89
Grego, B., see Hearn, M.T.W. 255(1983)125, 266(1983)75
Gregolin, C., see Ursini, F. 270(1983)301
Grehn, L., see Fransson, B. 268(1983)347
Greibrokk, T., see Brondz, I. 274(1983)299
Greig, N., see Collins, M. 274(1983)434
Greizerstein, H.B. and McLaughlin, I.G.
Sensitive method for the determination of methadone in small blood samples 264(1983)312
Greulich, H.-G., see Erbersdobler, H.F. 254(1983)332
Greving, J.E., see Hageman, R.J.J. 274(1983)239
Grgurinovich, N.
A simple and sensitive method for the determination of perhexiline in plasma using GLC with nitrogen-phosphorus detection 274(1983)361
Griesemer, E.C., see Liu, Y. 268(1983)329
Griffiths, D.G., see Partis, M.D. 259(1983)189
Grimme, L.H., see Braumann, T. 261(1983)329
Grimsrud, E.P., see Connolly, M.J. 265(1983)145
Grimvall, A., see Borén, H. 252(1982)139
Grindel, J.M., Hills, J.F. and Renzi, N.L.
Reversed-phase HPLC assay for zomepirac in urine 272(1983)210
Grob, K.
Modified stripping technique for the analysis of trace organics in water (Letter to the Editor) 260(1983)527
Grob, K., see Graydon, J.W. 254(1983)265
Grob, K., see Grob, K. Jr. 270(1983)17
Grob, K. Jr.
Partial solvent trapping in capillary GC. Description of a solvent effect (Review) 251(1982)235
Grob, K. Jr.
Solvent trapping in capillary GC. Two-step chromatography 253(1982)17
Grob, K. Jr. and Grob, K.
Determination of the depth of retention gaps in capillary GC 270(1983)17
Grob, K. Jr. and Schilling, B.
Observation of a peak under the action of "phase soaking" a GC solvent effect, during passage through a capillary column 259(1983)37
Grob, K. Jr. and Schilling, B.
Retardation by phase soaking in capillary GC 260(1983)265
Grob, K. Jr. and Schilling, B.
Solvent effects in capillary GC. Determination of trace amounts of chloroform as an example 264(1983)7
Grob, R.L., see McNally, M.E. 260(1983)23
Grob, R.L., see Sullivan, J.F. 261(1983)265, 268(1983)219
Groen, G., see Welling, G.W. 266(1983)629
Grote, W.A., see Stover, F.S. 269(1983)198
Grou, E., Rădulescu, V. and Csuma, A.
Direct determination of some carbamate pesticides in water and soil by HPLC 260(1983)502
Groves, J.K., see Malcolm, S.L. 273(1983)327
Grünbauer, H.J.M., Bijloo, G.J. and Bultsma, T.
Influence of eluent composition on lipophilicity measurements using reversed-phase TLC 270(1983)87
Grünbauer, H.J.M. and Tomlinson, E.
Application of local-composition theory to reversed-phase LC 268(1983)277
Grushka, E., Leshem, R. and Gilon, C.
Retention behavior of amino acid enantiomers in reversed-phase LC 255(1983)41
Guaita, M., see Chiantore, O. 260(1983)41
Guasch, A., see Nogués, M.V. 268(1983)255
Guerra, M.C., Barbaro, A.M., Cantelli Forti, G., Biagi, G.L. and Borea, P.A.
R_M values, retention times and octanol-water partition coefficients of a series of 5-nitroimidazoles 259(1983)329
Guichardant, M. and Lagarde, M.
Phospholipid analysis and fatty acid content in platelets by the combination of HPLC and glass capillary GLC 275(1983)400
Guiochon, G. and Arpino, P.J.
How to interface a chromatographic column to a mass spectrometer 271(1983)13
Guiochon, G., Beaver, L.A., Gonnord, M.F., Siouffi, A.M. and Zakaria, M.
Theoretical investigation of the potentialities of the use of a multidimensional column in chromatography 255(1983)415
Guiochon, G., Krstulović, A. and Colin, H.
Effects of intermediate mobile phase removal on column performance in two-dimensional CC 265(1983)159
Guiochon, G., see Arpino, P.J. 251(1982)153, 271(1983)43
Guiochon, G., see Colin, H. 255(1983)295
Guiochon, G., see Dedieu, M. 251(1982)203
Guiochon, G., see Gonnord, M.-F. 264(1983)1
Guiochon, G., see Karasek, F.W. 270(1983)227
Guiochon, G., see Lehotay, J. 258(1983)223
Guiochon, G., see Stolyhwo, A. 265(1983)1
Guiochon, G., see Zakaria, M. 271(1983)127
Gunasingham, H. and Fleet, B.
Use of electrochemical detection in normal-phase HPLC 261(1983)43
Gurley, L.R., Prentice, D.A., Valdez, J.G. and Spall, W.D.
HPLC of chromatin histones 266(1983)609

Gut, V., see Lebl, M. 260(1983)478
Guthrie, E.J., see Jorgenson, J.W. 255(1983)335
Gyllenhaal, O. and Vessman, J.
GC with nitrogen-selective detection of metoprolol from human plasma after reaction with phosgene 273(1983)129

H

Haavik, J. and Flatmark, T.
Isolation and characterization of quinonoid dihydropterins by HPLC 257(1983)361
Haayer, G., see Venema, K. 260(1983)371
Hackman, M.R., Lee, T.L. and Brooks, M.A.
Determination of cibenzoline in plasma and urine by HPLC 273(1983)347
Haddad, M.P. Lopez de, see Lopez de Haddad, M.P. 260(1983)173
Haddad, P.R. and Heckenberg, A.L.
HPLC of inorganic and organic ions using low-capacity ion-exchange columns with indirect refractive index detection 252(1982)177
Haddad, P.R., see Hutchins, S.R. 252(1982)185
Haddad, P.R., see Low, G.K.C. 254(1983)123, 261(1983)345
Hadfield, A.F., Dreyer, R.N. and Sartorelli, A.C.
Conversion of an analytical HPLC system into an automated semi-preparative unit and its application to the separation of a mixture of benzyl α- and β-D-glucofuranosides and glucopyranosides 257(1983)1
Haegele, K.D., Schoun, J., Alken, R.G. and Huebert, N.D.
Determination of the *R*(-)- and *S*(+)-enantiomers of γ-vinyl-γ-aminobutyric acid in human body fluids by GC-MS 274(1983)103
Haff, L.A., Fägerstam, L.G. and Barry, A.R.
Use of electrophoretic titration curves for predicting optimal chromatographic conditions for fast ion-exchange chromatography of proteins 266(1983)409
Hafkenscheid, T.L. and Tomlinson, E.
Observations on capacity factor determination for reversed-phase LC with aqueous methanol eluents using the solubility parameter concept model and its derivatives 264(1983)47
Hageman, R.J.J., Greving, J.E., Jonkman, J.H.G. and De Zeeuw, R.A.
HPLC determination of reproterol in plasma using on-line trace enrichment and amperometric detection with a rotating working electrode 274(1983)239
Hagemeier, E., Boos, K.-S., Schlimme, E., Lechtenbörger, K. and Kettrup, A.
Synthesis and application of a boronic acid-substituted silica for high-performance liquid affinity chromatography 268(1983)291
Haken, J.K.
GC of homologous esters. XIX. Dihalogenated esters of butanoic and pentanoic acids 253(1982)264
Haken, J.K. and Korhonen, I.O.O.
GC of homologous esters. XXI. Capillary column studies of the chlorinated phenyl acetates 257(1983)267
Haken, J.K. and Korhonen, I.O.O.
Retention increments of isomeric chlorobenzenes 265(1983)323
Haken, J.K. and Korhonen, I.O.O.
GC of homologous esters. XXIII. Capillary column studies of chlorinated methyl propenoates 268(1983)511
Haken, J.K., Madden, B.G. and Korhonen, I.O.O.
GC of homologous esters. XX. Capillary column studies of alkyl acetates, chloroacetates, dichloroacetates and trichloroacetates 256(1983)221
Haken, J.K., Openshaw, J.D., Sharples, W.E., Madden, B.G. and Vernon, F.
Microprocessor-controlled peak retention time analyser for the determination of retention indices 267(1983)1
Haken, J.K., Wainwright, M.S. and Srisukh, D.
Linearity of retention data plots for *n*-alkanes on porous silica in GC 257(1983)107
Haken, J.K., see Burford, R.P. 268(1983)515
Haken, J.K., see Latif, S. 258(1983)228, 258(1983)233
Haken, J.K., see Wainwright, M.S. 256(1983)193
Haky, J.E., Leja, B. and Schneider, H.G.
Supercooled liquid crystal GC separation of the 2,4- and 2,5-xylyloxy isomers of gemfibrozil and xylenol 264(1983)287
Hal, H.J.M. van, see Van Hal, H.J.M. 272(1983)87
Hall, J.F., see Blakesley, D. 258(1983)155
Hall, M.E., see Metz, S.A. 275(1983)468
Halpern, B., see Hocart, C.H. 275(1983)237
Hamelin, J., see Seidah, N.G. 266(1983)213
Hameroff, S.R., see Davis, T.P. 273(1983)436
Hamidzadeh, Z., see Wainer, I.W. 261(1983)123, 268(1983)107
Hammers, W.E., see Van Miltenburg, J.C. 268(1983)147
Hammond, J.W., see Hocart, C.H. 275(1983)237
Hanash, S., see Strahler, J.R. 266(1983)281
Haniff, I.M. and Zienius, R.H.
Column temperature effects on GC responses to organophosphorus pesticides 264(1983)33
Hankó, K., see Papp, O. 252(1982)67
Hankó-Novák, K., see Szász, G. 269(1983)91
Hansen, B., see Welinder, B.S. 265(1983)301
Hansen, S.H., Helboe, P. and Lund, U.
Adsorption capacity and surface area measurements in HPLC on dynamically modified silica 260(1983)156

Hansen, S.H., Helboe, P. and Lund, U.
HPLC on dynamically modified silica. IV. Effects of variations of pH, ionic strength and buffer composition in eluents containing cetyltrimethylammonium bromide 270(1983)77
Hansen, S.H., see Brønnum-Hansen, K. 262(1983)385
Hansson, C., see Hansson, L. 265(1983)37
Hansson, K.-A.
Purification of NADP by high-performance anion-exchange chromatography 266(1983)395
Hansson, L., Glad, M. and Hansson, C.
Boronic acid-silica: a new tool for the purification of catecholic compounds on-line with reversed-phase HPLC 265(1983)37
Hansson, L., see Trojer, L. 262(1983)183
Happ, E., see Seliger, H. 253(1982)65
Hara, S., see Dobashi, A. 267(1983)11
Harada, J., see Koshioka, M. 256(1983)101
Harada, K., see Sugii, A. 254(1983)270
Harada, K.-I., see Oka, H. 260(1983)457
Hardy, M., see Krien, P. 251(1982)129
Harenberg, J. and De Vries, J.X.
Characterization of heparins by high-performance size exclusion LC 261(1983)287
Harper, T.W., see Metz, S.A. 275(1983)468
Harris, P.J., see Henry, R.J. 256(1983)419, 262(1983)249
Harrison, I.T., see Shimizu, R. 253(1982)101
Hart, R.W., see Turturro, A. 252(1982)335
Hartl, J., see Dadáková, K. 254(1983)277
Hartmann, L., Doree, G. and Ambert, J.-P.
GLC reference method for the assay of urinary creatinine 273(1983)235
Hartvig, P. and Fagerlund, C.
A simplified method for the GC determination of pethidine and norpethidine after derivatization with trichloroethyl chloroformate 274(1983)355
Harvey, T.M., see Hunt, D.F. 271(1983)93
Hasan, T., see Kerlavage, A.R. 266(1983)225
Hashimoto, K., Suzuki, Y., Kinoshita, K., Takahashi, G. and Yasuhira, K.
Microsomal hydroxylation of 3-methylcholanthrene: analysis by computerized GC-MS 260(1983)429
Hashimoto, K., see Onoue, Y. 257(1983)373
Hashimoto, K., see Watabe, S. 260(1983)210
Hashimoto, M., see Miyazaki, H. 274(1983)75
Hashimoto, T., see Kato, Y. 253(1982)219, 256(1983)143, 265(1983)342, 266(1983)49, 266(1983)341, 266(1983)385, 268(1983)425
Hatano, H., see Rokushika, S. 253(1982)87, 260(1983)81
Hatsumi, M., Kimata, S.-I. and Hirosawa, K.
9-Anthryldiazomethane derivatives of prostaglandins for HPLC 253(1982)271
Hauck, H.E. and Jost, W.
Investigations and results obtained with overpressured TLC 262(1983)113
Hauck, H.E., see Jost, W. 256(1983)182, 261(1983)235, 264(1983)91
Haupt, W. and Pingoud, A.
Comparison of several HPLC techniques for the separation of oligodeoxynucleotides according to their chain lengths 260(1983)419
Havaši, P., see Kaniansky, D. 258(1983)238
Hawley-Fedder, R.A., Bowers, W.D., Parsons, M.L. and Karasek, F.W.
Evaluation of a Teflon block extraction procedure for determination of organic material in air particulate matter 269(1983)161
Hayakawa, K., Okada, E., Higashikuze, H. and Kawamoto, T.
Improved recovery of ovalbumin by reversed-phase HPLC 256(1983)172
Hayashi, C., see Yamaguchi, Y. 273(1983)87
Hayashi, T., Tsuchiya, H. and Naruse, H.
HPLC determination of α-keto acids in plasma with fluorometric detection 273(1983)245
Hayashi, T., Tsuchiya, H. and Naruse, H.
Reversed-phase ion-pair chromatography of amino acids. Application to the determination of amino acids in plasma samples and dried blood on filter papers 274(1983)318
Hayes, A.G. and Chang, T.
Determination of indeloxazine, a new antidepressant agent, in human plasma by GLC with electron-capture detection 272(1983)176
Hayes, M.J., see Vouros, P. 251(1982)175
Hayes, P.C. Jr. and Pitzer, E.W.
Characterizing petroleum- and shale-derived jet fuel distillates via temperature-programmed Kováts indices 253(1982)179
Hayward, N.J.
Head-space GLC for the rapid laboratory diagnosis of urinary tract infections caused by enterobacteria 274(1983)27
Hearn, M.T.W. and Grego, B.
HPLC of amino acids, peptides and proteins. XL. Further studies on the role of the organic modifier in the reversed-phase HPLC of polypeptides. Implications for gradient optimisation 255(1983)125
Hearn, M.T.W. and Grego, B.
HPLC of amino acids, peptides and proteins. XLVI. Selectivity effects of peptidic positional isomers and oligomers separated by reversed-phase HPLC 266(1983)75
Hearn, M.T.W., see Grego, B. 255(1983)67, 266(1983)89
Hearn, M.T.W., see Stanton, P.G. 266(1983)273
Heckenberg, A.L., see Haddad, P.R. 252(1982)177
Heckers, H. and Melcher, F.W.
Isolation of *trans*-hexadecenoic and *trans*-octadecenoic fatty acid methyl esters from lipid extracts by means of argentation and reversed-phase TLC 256(1983)185
Heimler, D., see Lepri, L. 260(1983)383, 265(1983)328, 268(1983)493

Heitzmann, M.W. and Ford, L.A.
Non-aqueous electrophoresis study of complex formation between catechol and technetium(V) 267(1983)213
Helboe, P.
Separation and quantitative determination of long-chain alkyltrimethylammonium ions by reversed-phase ion-pair LC using UV-absorbing counter ions 261(1983)117
Helboe, P., see Hansen, S.H. 260(1983)156, 270(1983)77
Heller, D., see Fenselau, C. 271(1983)3
Hellmann, K., see Collins, M. 274(1983)434
Hendrix, D.L., see Baust, J.G. 261(1983)65
Henion, J., Maylin, G.A. and Thomson, B.A.
Determination of drugs in biological samples by TLC-tandem MS 271(1983)107
Henion, J.D., see Sugnaux, F.R. 264(1983)357
Henke, H.
Selective and preparative gel chromatographic separation of low-molecular-weight substances on Sephadex LH-20 (in German) 254(1983)296
Hennigan, G.P., see McMurrough, I. 258(1983)103
Henriksen, L.M. and Kjøsen, H.
Derivatization of natural anthraquinones by reductive silylation for GC and GC-MS analysis 258(1983)252
Henry, R.J., Blakeney, A.B., Harris, P.J. and Stone, B.A.
Detection of neutral and aminosugars from glycoproteins and polysaccharides as their alditol acetates 256(1983)419
Henry, R.J., Harris, P.J., Blakeney, A.B. and Stone, B.A.
Separation of alditol acetates from plasticizers and other contaminants by capillary GC 262(1983)249
Hensley, C.A., see Moore, B.L. 265(1983)121
Heresch, F., see Huber, J.F.K. 271(1983)27
Hermann, E.A., see Kastl, P.E. 265(1983)277
Hermann, E.A., see Kropscott, B.E. 269(1983)108
Hermansson, J.
Direct LC resolution of racemic drugs using α_1-acid glycoprotein as the chiral stationary phase 269(1983)71
Hermecz, I., see Papp, O. 252(1982)67
Hernádi, F.J., see Toth-Martinez, B.L. 264(1983)174
Herod, A.A., see Burchill, P. 265(1983)223
Herring, S.W. and Enns, R.K.
Rapid purification of leukocyte interferons by HPLC 266(1983)249
Herrmann, K., see Brandl, W. 260(1983)447
Hersh, E.M., see Rosenblum, M.G. 272(1983)200
Hershcovitz, H., Yarnitzky, C. and Schmuckler, G.
Ion chromatography with potentiometric detection 252(1982)113
Hertz, H.S., see Christensen, R.G. 271(1983)61
Heukeshoven, J. and Dernick, R.
Reversed-phase HPLC of virus proteins and other large hydrophobic proteins in formic acid containing solvents 252(1982)241
Heumann, K.G., Klöppel, H. and Sigl, G.
Dependence of the calcium distribution coefficient on a strongly acidic cation-exchange resin on the anion of strong acids and their lithium salts 262(1983)211
Hibi, K., see Iriyama, K. 254(1983)285
Hick, L.A., see Hocart, C.H. 275(1983)237
Hidalgo, R.O. and McCoy, B.J.
Single temperature desorption from porous catalysts 254(1983)1
Higashikuze, H., see Hayakawa, K. 256(1983)172
Higuchi, H., see Kuromizu, K. 267(1983)199
Hilgers, H., see Schmitz, F.P. 267(1983)267
Hill, H.H. Jr., see Osman, M.A. 264(1983)149
Hill, W.B. Jr., see Lochmüller, C.H. 264(1983)215
Hilliard, R., see Krull, I.S. 260(1983)347
Hills, J.F., see Grindel, J.M. 272(1983)210
Himel, C.M., see Taylor, J.L. 257(1983)275
Himmel, M.E., Oh, K.K., Sopher, D.W. and Chum, H.L.
High-performance size exclusion chromatography of low-molecular-weight lignins and model compounds 267(1983)249
Himuro, A., Nakamura, H. and Tamura, Z.
Fluorometric determination of secondary amines by HPLC with post-column derivatization 264(1983)423
Hir, A. le, see Le Hir, A. 272(1983)359
Hiraga, E., see Murayama, K. 274(1983)63
Hirano, S., see Nobuhara, Y. 258(1983)276
Hirata, Y. and Sumiya, E.
Temperature-programmed reversed-phase LC with packed fused-silica columns 267(1983)125
Hirata, Y., see Fujimoto, C. 258(1983)81
Hirayanagi, K., see Aoyagi, S. 253(1982)133
Hirokawa, T. and Kiso, Y.
Isotachophoretic determination of mobility and pK_a by means of computer simulation. I. Estimation of accuracy of the evaluated constants 252(1982)33
Hirokawa, T. and Kiso, Y.
Complex-forming equilibria in isotachophoresis. III. Estimation of optimum separation conditions of several organic acids by means of computer simulation 257(1983)197
Hirokawa, T. and Kiso, Y.
Analytical isotachophoresis utilizing computer simulation. I. Factors affecting the quantitative indices and utility for determinations 260(1983)225
Hirokawa, T., Nishino, M., Aoki, N., Kiso, Y., Sawamoto, Y., Yagi, T. and Akiyama, J.-I.
Table of isotachophoretic indices. I. Simulated qualitative and quantitative indices of 287 anionic substances in the range pH 3-10 271(1983)D1
Hirokawa, T., Nishino, M. and Kiso, Y.
Isotachophoretic determination of mobility and pK_a by means of computer simulation.

II. Evaluation of m_o and pK_a of 65 anions 252(1982)49
Hirosawa, K., see Hatsumi, M. 253(1982)271
Hisamatsu, M., see Koizumi, K. 265(1983)89
Hisamura, M., see Kaji, H. 272(1983)166
Hjerpe, A., Engfeldt, B., Tsegenidis, T. and Antonopoulos, C.A.
Separation and determination of neutral monosaccharides using methanolysis and HPLC 259(1983)334
Hjertén, S.
High-performance electrophoresis: the electrophoretic counterpart of HPLC 270(1983)1
Hocart, C.H., Halpern, B., Hick, L.A., Wong, C.O., Hammond, J.W. and Wilcken, B.
Hawkinsinuria - identification of quinolacetic acid and pyroglutamic acid during an acidotic phase 275(1983)237
Hodges, R.S., see Cachia, P.J. 266(1983)651
Hoenders, H.J., see Bindels, J.G. 252(1982)255, 261(1983)381
Hoesel, Q.G.C.M. van, see Van Hoesel, Q.G.C.M. 272(1983)421
Hoffman, W., see Feste, A. 275(1983)283
Hoffmann, D., see Adams, J.D. 256(1983)347
Hogan, E.L., see Traylor, T.D. 272(1983)9
Hokse, H., see Brunt, K. 268(1983)131
Holdiness, M.R. and Morgan, L.R. Jr.
Electron-capture-GC analysis of ifosfamide in human plasma and urine 275(1983)432
Holding, S.R., Vlachogiannis, G. and Barker, P.E.
Concentration and temperature effects in GPC 261(1983)33
Holman, G.M., see Sylvia, V.L. 261(1983)158
Holman, R.B. and Snape, B.M.
Determination of L-tyrosine in rat brain by reversed-phase LC with electrochemical detection 262(1983)415
Holt, G., see Rogers, M.E. 257(1983)91
Holupirek, M., see Seliger, H. 253(1982)65
Homsher, M.T., see Levine, S.P. 257(1983)255
Honda, S., Takahashi, M., Araki, Y. and Kakehi, K.
Postcolumn derivatization of catecholamines with 2-cyanoacetamide for fluorimetric monitoring in HPLC 274(1983)45
Honda, S., see Kakehi, K. 272(1983)1
Honigberg, I.L., see Lang, J.R. 252(1982)288, 264(1983)144
Hoogmartens, J., see Kibwage, I.O. 256(1983)164
Hoppel, C.L., Weir, D.E., Gibbons, A.P., Ingalls, S.T., Brittain, A.T. and Brown, F.M.
Determination of 6-N-trimethyllysine in urine by HPLC 272(1983)43
Hoppel, C.L., see Ingalls, S.T. 274(1983)366
Hopwood, J.J., see Clements, P.R. 261(1983)77
Horáček, J., see Černíková, M. 273(1983)202
Horák, D., see Hradil, J. 259(1983)269
Horiyama, S., see Koizumi, K. 265(1983)89
Horna, A., see Komárek, K. 262(1983)316
Hornová, L., see Komárek, K. 252(1982)293, 262(1983)316
Horváth, C., Frenz, J. and El Rassi, Z.
Operating parameters in high-performance displacement chromatography 255(1983)273
Horváth, C., see El Rassi, Z. 266(1983)319
Horváth, C., see Jacobson, J. 253(1982)252
Hosako, K., see Matsushita, S. 259(1983)459
Hoshita, T., see Une, M. 257(1983)411
Hostomská, Z. and Mikeš, O.
Analytical medium-pressure LC of cellulolytic enzymes on Spheron ion exchangers 267(1983)355
Hostomská, Z., see Mikeš, O. 261(1983)363
Hostomská, Z., see Vrátný, P. 254(1983)143
Houghton, C., see McDonald, J.R. 262(1983)431
Hounwanou, N., see Reinbolt, J. 259(1983)121
Houston, J.B., see Shaw, P.N. 274(1983)393
Hradil, J., Horák, D., Pelzbauer, Z., Votavová, E., Švec, F. and Kálal, J.
Investigation of the surface structure of polymers by chromatographic methods. V. Use of GPC in the study of the porous structure of copolymers of glycidyl methacrylate 259(1983)269
Hsieh, J.Y.K., Yang, R.K. and Davis, K.L.
HPLC determination of tetrahydroaminoacridine in human and rat tissues using a rapid Sep-Pak C_{18} extraction 274(1983)388
Hsieh, Y.-P.C. and Karel, M.
Rapid extraction and determination of α- and β-carotenes in foods 259(1983)515
Hsu, A.-F., see Doner, L.W. 253(1982)120
Huang, J.-C., Rothstein, D. and Madey, R.
Adsorption of *n*-butane and 1,3-butadiene on cross-linked polystyrene 256(1983)213
Huang, J.-C., Rothstein, D. and Madey, R.
Linear non-equilibrium chromatographic reactor with a first-order chemical reaction 261(1983)1
Huber, J.F.K., Dzido, T. and Heresch, F.
Mechanized off-line combination of microbore HPLC and laser MS 271(1983)27
Huber, J.F.K., see Van der Wal, S. 251(1982)289
Hüdig, H., see Welte, W. 259(1983)341
Hudson, J.R., see Fox, A. 256(1983)429
Huebert, N.D., see Haegele, K.D. 274(1983)103
Hughes, D.E.
Simultaneous determination of phenylephrine hydrochloride, chlorpheniramine maleate and sodium benzoate by reversed-phase, paired-ion and competing-base HPLC 262(1983)404
Huisman, T.H.J., see Lam, H. 269(1983)119
Huisman, T.H.J., see Nakatsuji, T. 259(1983)511
Hull-Ryde, E.A., Cummings, R.G. and Lowe, J.E.
Improved method for high energy nucleotide analysis of canine cardiac muscle using reversed-phase HPLC 275(1983)411
Hülm, M., see Pötter, H. 273(1983)217

Hung, S.S.O. and Moon, T.W.
Determination of free methylhistidine and amino acids by HPLC 269(1983)114
Hunt, D.F., Shabanowitz, J., Harvey, T.M. and Coates, M.L.
Analysis of organics in the environment by functional group using a triple quadrupole mass spectrometer 271(1983)93
Hunter, K.
Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. I. Fluorescence detection using post-column techniques 270(1983)267
Hunter, K.
Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. II. Fluorescence detection using ion-pair chromatography 270(1983)277
Hurst, W.J. and Martin, R.A. Jr.
HPLC determination of ochratoxin A in artificially spiked cocoa beans 265(1983)353
Hurtubise, R.J., see Hussain, A. 252(1982)21
Hušek, P., Felt, V. and Matucha, M.
Single-column GC analysis of amino acid oxazolidinones 252(1982)217
Hussain, A., Hurtubise, R.J. and Silver, H.F.
Solvent composition effects with a cyano and a silica gel stationary phase in normal-phase LC of alkylphenols and naphthols 252(1982)21
Husseini, H., see Balzer, H. 259(1983)87
Hussey, R.L., Mascher, W.G. and Lagu, A.L.
Determination of *p*-hydroxypenicillin V, *p*-hydroxyphenoxyacetic acid, phenoxyacetic acid, and penicillin V in production fermentation broth 268(1983)120
Hutchens, T.W., Wiehle, R.D., Shahabi, N.A. and Wittliff, J.L.
Rapid analysis of estrogen receptor heterogeneity by chromatofocusing with HPLC 266(1983)115
Hutchings, A.D., see Spragg, B.P. 258(1983)289
Hutchins, S.R., Haddad, P.R. and Dilli, S.
Reversed-phase HPLC of diethyldithiocarbamate complexes using radial compression columns 252(1982)185
Hutin, M., Cavé, A. and Foucher, J.-P.
Use of HPLC for the characterization and determination of the main alkaloids of *Papaver somniverum* L. (in French) 268(1983)125
Hutin, M., Öztekin, A., Cavé, A. and Foucher, J.P.
Analysis of the alkaloids of *Papaver pilosum* by HPLC: application to the separation of epimers (in French) 265(1983)139
Hwang, D.-G., see Yinon, J. 268(1983)45
Hwang, W.-R., see Wu, H.-L. 269(1983)183
Hyppänen, T., Sjöström, E. and Vuorinen, T.
GLC determination of hydroxy carboxylic acids on a fused-silica capillary column 261(1983)320

I

Ichikawa, N., see Kubo, I. 257(1983)157
Idoyaga-Vargas, V., see Alperin, D.M. 265(1983)193
Igarashi, Y., see Minatogawa, Y. 274(1983)413
Ignáth-Halász, Z., see Papp, O. 252(1982)67
Iijima, T., see Kadofuku, T. 275(1983)71
Iino, N., see Onodera, S. 265(1983)201
Ikeda, H., see Tomono, T. 266(1983)39
Ikeda, M., Shimada, K. and Sakaguchi, T.
HPLC determination of free fatty acids with 1-naphthylamine 272(1983)251
Ikeda, T., see Iriyama, K. 254(1983)285
Ilic, M.Z., see Carnegie, P.R. 261(1983)153
Imaoka, S., see Funae, Y. 264(1983)249
Improta, C., see Nota, G. 262(1983)360
Inda, Y., see Ôi, N. 259(1983)487, 265(1983)111
Ingalls, S.T., Schwerkoske, J.F., Forman, W.B. and Hoppel, C.L.
Rapid and sensitive method for the determination of salicylic acid in serum by reversed-phase ion-pair HPLC 274(1983)366
Ingalls, S.T., see Hoppel, C.L. 272(1983)43
Inoue, K., Fujimori, K., Mizokami, K., Sunouchi, M., Takanaka, A. and Omori, Y.
Simultaneous determination of aminopyrine hydroxylation and aminopyrine N-demethylation in liver microsomes by HPLC 274(1983)201
Inoue, T., see Suzuki, S. 267(1983)381
Ireland, Y.R., see Echols, R.E. 262(1983)257
Iriyama, K., Ozaki, Y., Hibi, K. and Ikeda, T.
Raman spectroscopic detection of haemoproteins in the eluate from HPLC 254(1983)285
Isaac, K., see Corina, D.L. 260(1983)51
Ishii, D. and Takeuchi, T.
HPLC using flexible fused-silica micro-packed columns 255(1983)349
Ishii, D., see Goto, M. 268(1983)157, 275(1983)271
Ishii, D., see Takeuchi, T. 253(1982)41, 257(1983)327, 258(1983)125
Ishii, K., see Shimizu, R. 253(1982)101
Ishikawa, T., see Aoyagi, S. 253(1982)133
Ishikura, S., see Onodera, S. 265(1983)201
Ishikura, T., see Okabe, M. 256(1983)447
Ishimoto, M., see Kaji, H. 272(1983)166
Ishitani, R., see Karasawa, A. 260(1983)513
Ishiwata, H., see Niwa, H. 257(1983)146
Ishiwatari, R., see Uzaki, M. 260(1983)487
Isobe, T., see Shimono, T. 258(1983)73
Itho, T., see Nakagawa, H. 260(1983)391
Ito, M., Yamane, T. and Tsukida, K.
HPLC separation and NMR identification of stereoisomers of 5,8-furanoidal retinal 253(1982)113
Ito, M., see Onoue, Y. 257(1983)373
Ito, T., Namekawa, H. and Kobari, T.
Determination of aprindine in plasma by GC-MS 274(1983)341

Ito, Y., see Friedman, R.D. 252(1982)283
Itokawa, Y., see Panijpan, B. 258(1983)307
Ivanov, I., Raikova, E., Raikov, Z., Kaffalieva, D. and Yaneva, J.
Purification of spin-labelled DNA by hydroxyapatite chromatography 260(1983)177
Ivey, J.P.
Novel eluent for the UV and conductometric detection of anions in unsuppressed ion chromatography 267(1983)218
Iwai, K., see Tani, M. 267(1983)175
Iwański, L., see Kusz, P. 267(1983)227
Iwase, H., Li, S.-C. and Li, Y.-T.
Fractionation of Dns-glycopeptides by reversed-phase HPLC 267(1983)238
Izumo, Y., see Sato, A. 275(1983)97

J

Jackman, G.P., see Oddie, C.J. 273(1983)469
Jackson, D.L. and McWha, J.A.
Rapid breakdown of indole-3-acetic acid on silica gel thin-layer plates 267(1983)242
Jacobson, J., El Rassi, Z. and Horváth, C.
Quantitative structure-retention relationships for dinucleoside monophosphates as a function of pH 253(1982)252
Jahns, G., Schunck, W. and Schwedt, G.
Quantitative TLC of lead in contaminated environmental materials after separation as tetramethylenedithiocarbamate and *in situ* determination as lead sulphide (in German) 259(1983)195
Jalkanen, M., Salmi, A., Peltonen, J. and Kouri, T.
Analysis of structural cell proteins by isoelectric focusing in zwitterionic agarose gel thin layers 268(1983)79
Jamali, F., see Arman, M. 272(1983)406
James, H., see Baust, J.G. 261(1983)65
Janák, J., see Gebauer, P. 267(1983)455
Janauer, G.E., see Spalik, J. 253(1982)289
Jandera, P., Churáček, J. and Taraba, B.
Comparison of retention behaviour of aromatic sulphonic acids in reversed-phase systems with mobile phases containing ion-pairing ions and in systems with solutions of inorganic salts as the mobile phases 262(1983)121
Jane, I., see White, P.C. 265(1983)293
Janicki, W., see Przyjazny, A. 262(1983)199
Jannuzzo, M.G., see Moro, E. 274(1983)281
Jasse, B., see Combellas, C. 259(1983)211
Jastorff, B., see Genieser, H.-G. 269(1983)127
Jeansonne, N., see Radhakrishnamurthy, B. 256(1983)341
Jefferies, T.M., see Farrell, B.M. 272(1983)111
Jenke, D.R. and Pagenkopf, G.K.
Modeling of analyte response to changing eluent composition in suppressed ion chromatography 269(1983)202
Jensen, K. Møller, see Møller Jensen, K. 274(1983)381
Jezorek, J.R., see Shahwan, G.J. 256(1983)39
Jinno, K.
Correlation between the retention of cardiac glycosides in reversed-phase HPLC with a diphenylsilyl stationary phase, their structure and biological activity (Letter to the Editor) 264(1983)485
Jinno, K., see Fujimoto, C. 258(1983)81
Jizba, J.V., Přikrylová, V. and Lipavská, H.
TLC separation of new semisynthetic derivatives of daunomycinone 257(1983)185
Johannesen, R.B., see Parks, E.J. 255(1983)439
Johansen, N.G., Ettre, L.S. and Miller, R.L.
Quantitative analysis of hydrocarbons by structural group type in gasolines and distillates. I. GC 256(1983)393
Johansen, N.G., see Miller, R.L. 259(1983)393, 264(1983)19
Johansson, I.M. and Niklasson, F.A.
Determination of porphyrins in urine by direct injection on a LC column coated with tributylphosphate 275(1983)51
Johansson, M., Eksborg, S. and Arbin, A.
Determination of noscapine in plasma by LC 275(1983)355
Johnson, E.A., Corran, P.H. and Paterson, M.
Amino acid content of heparins 264(1983)291
Johnson, L., see Mopper, K. 256(1983)27, 256(1983)243
Johnson, R.N., see Fong, G.W.K. 255(1983)199
Jonckheere, J.A.A., see Delbeke, F.T. 273(1983)141
Jones, B.N. and Gilligan, J.P.
o-Phthaldialdehyde precolumn derivatization and reversed-phase HPLC of polypeptide hydrolysates and physiological fluids 266(1983)471
Jones, C.R., see Neill, E.A.M. 274(1983)409
Jong, G.J. de, see De Jong, G.J. 255(1983)79
Jonkman, J.H.G., see Hageman, R.J.J. 274(1983)239
Jonson, S., see Alm, S. 254(1983)179
Jordan, V.C., see Brown, R.R. 272(1983)351
Jorde, C., see Trathnigg, B. 259(1983)381
Jorgenson, J.W. and Guthrie, E.J.
LC in open-tubular columns. Theory of column optimization with limited pressure and analysis time, and fabrication of chemically bonded reversed-phase columns on etched borosilicate glass capillaries 255(1983)335
Jorgenson, J.W., see Bush, S.G. 260(1983)1
Jost, W. and Hauck, H.E.
HPTLC pre-coated plates with amino

modification and some applications 261(1983)235
Jost, W. and Hauck, H.E.
Reversed-phase TLC of nitrogen bases using alkyl sulphonates as ion-pair reagents 264(1983)91
Jost, W., Hauck, H.E. and Eisenbeiss, F.
Simple method for the separation of cephalosporins using silica gel 60 as the stationary phase in TLC and in HPLC 256(1983)182
Jost, W., see Hauck, H.E. 262(1983)113
Jouve, J., Mariotte, N., Sureau, C. and Muh, J.P.
HPLC with electrochemical detection for the simultaneous determination of the methoxylated amines, normetanephrine, metanephrine and 3-methoxytyramine, in urine 274(1983)53
Jowett, D.A., see Cook, N.J. 272(1983)181
Juge, F., see Rouan, M.C. 275(1983)133
Juin, C., see Dedieu, M. 251(1982)203
Jung, G., see Kuhnz, W. 272(1983)333
Jungclas, H., Danigel, H. and Schmidt, L.
Fractional sampling interface for combined LC-MS with ^{252}Cf fission fragment-induced ionization 271(1983)35
Jurenitsch, J., see Kopp, B. 257(1983)137
Jürgens, U.
Routine determination of hydroxyphenytoin in urine by HPLC using an automatic column-switching technique 275(1983)335

K

Kacprowicz, A.T.
Interaction of chloroform with some amines during GLC on an alkaline Carbowax 20M system 269(1983)61
Kacprowicz, A.T., Shaw, P.G., Moulds, R.F.W. and Bury, R.W.
Determination of ketanserin in human plasma by HPLC 272(1983)417
Kadofuku, T., Iijima, T., Sato, T., Tei, I. and Makino, Y.
Detection of the changes in protein distribution in rat serum after partial hepatectomy using two-dimensional electrophoresis under non-denaturing conditions 275(1983)71
Kaffalieva, D., see Ivanov, I. 260(1983)177
Kågedal, B., Källberg, M., Märtensson, J. and Sörbo, B.
Reversed-phase ion-pair LC procedure with electrochemical detection for the analysis of urinary thiosulphate 274(1983)95
Kågedal, B. and Pettersson, A.
Determination of urinary 5-S-cysteinyldopa by HPLC 272(1983)287
Kagi, R.I., see Alexander, R. 267(1983)367
Kahle, V., see Kovář, J. 258(1983)199
Kahudová, V., see Skořepa, J. 273(1983)180
Kai, M., Miyazaki, T., Yamaguchi, M. and Ohkura, Y.
HPLC of guanidino compounds using benzoin as a pre-column fluorescent derivatization reagent 268(1983)417
Kaistha, K.K. and Tadrus, R.
Improved cost effective thin-layer detection techniques for routine surveillance of commonly abused drugs in drug abuse urine screening and proficiency testing programs with built-in quality assurance 267(1983)109
Kaizuka, H. and Takahashi, K.
HPLC system for a wide range of naturally occurring glycosides 258(1983)135
Kaizuka, H., see Takahashi, K. 268(1983)522
Kaji, H., Saito, K., Saito, N., Hisamura, M., Ishimoto, M. and Kondo, H.
Simple GC analysis of 3-methylthiopropionate in human urine 272(1983)166
Kajtár, J., see Fitos, I. 259(1983)494
Kajtár, M., see Fitos, I. 259(1983)494
Kakehi, K., Maeda, K., Teramae, M., Honda, S. and Takai, T.
Analysis of sialic acids by GC of the mannosamine derivatives released by the action of N-acetylneuraminate lyase 272(1983)1
Kakehi, K., see Honda, S. 274(1983)45
Kakihana, H., see Oi, T. 270(1983)7
Kálal, J., see Hradil, J. 259(1983)269
Kalhorn, T.F., see Sum, C.Y. 254(1983)187
Kállay, Z., see Šoltés, L. 273(1983)213
Källberg, M., see Kågedal, B. 274(1983)95
Kam, S.-T., see Sum, C.Y. 254(1983)187
Kamada, S., Maeda, M. and Tsuji, A.
Fluorescence HPLC determination of free and conjugated bile acids in serum and bile using 1-bromoacetylpyrene as a pre-labeling reagent 272(1983)29
Kamimura, H., Sasaki, H., Kawamura, S., Shimizu, M., Matsumoto, H. and Kobayashi, Y.
Determination of the α,β-adrenoceptor blocker YM-09538 in urine by GC with a nitrogen-sensitive detector 275(1983)81
Kampstra, N., see Venema, A. 269(1983)179
Kaneyama, Y., see Oka, H. 260(1983)457
Kaniansky, D., Koval, M. and Stankoviansky, S.
Simple cell for conductimetric detection in capillary isotachophoresis 267(1983)67
Kaniansky, D., Rajec, P., Švec, A., Havaši, P. and Macášek, F.
On-line radiometric detection in capillary isotachophoresis. I. Preliminary experiments 258(1983)238

Kaniansky, D., Zelenská, V. and Zelenský, I.
Discontinuous fractionation technique for capillary isotachophoresis 256(1983)126
Kannan, R., Tidwell, D. and Singh, B.N.
HPLC procedure for the quantitation of propafenone in serum and tissues 272(1983)428
Kanoh, H., see Uemichi, Y. 259(1983)69
Kanoh, S., see Onoue, Y. 257(1983)373
Kapás, M., see Klebovich, I. 273(1983)207
Kapila, S., Bornhop, D.J., Manahan, S.E. and Nickell, G.L.
Design of a combined photoionization detector and photoionization-based electron-capture detector 259(1983)205
Kapila, S., see Orazio, C.E. 262(1983)434
Karaiskakis, G., see Katsanos, N.A. 254(1983)15
Karasawa, A., Yoshikawa, S., Miyakawa, A., Nishi, A. and Ishitani, R.
Simple and rapid purification of acidic lipids from rat brains 260(1983)513
Karasek, F.W. and Viau, A.C.
GC-MS analysis of polychlorinated dibenzo-*p*-dioxins and organic compounds in high-temperature fly ash from municipal waste incineration 265(1983)79
Karasek, F.W., Viau, A.C., Guiochon, G. and Gonnord, M.F.
GC-MS study on the formation of polychlorinated dibenzo-*p*-dioxins and polychlorobenzenes from polyvinyl chloride in a municipal incinerator 270(1983)227
Karasek, F.W., see Hawley-Fedder, R.A. 269(1983)161
Karasek, F.W., see Tong, H.Y. 264(1983)231
Karasek, F.W., see Viau, A.C. 270(1983)235
Karel, M., see Hsieh, Y.-P.C. 259(1983)515
Kargaltsev, V.V., see Baram, G.I. 264(1983)69
Karger, B.L., see Vouros, P. 251(1982)175
Karigane, T., see Tanaka, K. 265(1983)374
Karkas, J.D., see Germershausen, J. 270(1983)383
Karlsen, J., see Tønnesen, H.H. 259(1983)367
Karlsson, H., see Alm, S. 254(1983)179
Karnatz, N.N., see Lee, Y.-C. 269(1983)28
Kårsnäs, P., Moreno-Lopez, J. and Kristiansen, T.
Bovine viral diarrhea virus: purification of surface proteins in detergent-containing buffers by fast protein LC 266(1983)643
Kashiwaya, Y., see Uemichi, Y. 259(1983)69
Kašička, V. and Prusík, Z.
Isotachophoresis electrodesorption of proteins from an affinity adsorbent on a microscale 273(1983)117
Kastl, P.E. and Hermann, E.A.
Determination of *cis*- and *trans*-1,3-dichloropropene in whole rat blood by GC and GC-chemical ionization MS with selected ion monitoring 265(1983)277
Kastl, P.E., see Kropscott, B.E. 269(1983)108
Kato, T., Tokuya, T. and Takahashi, A.
Comparison of poly(ethylene oxide), pullulan and dextran as polymer standards in aqueous gel chromatography 256(1983)61
Kato, Y., Kitamura, T. and Hashimoto, T.
High-performance hydrophobic interaction chromatography of proteins 266(1983)49
Kato, Y., Kitamura, T. and Hashimoto, T.
Characterization of TSK-GEL CM-Toyopearl 650 ion exchanger 268(1983)425
Kato, Y., Nakamura, K. and Hashimoto, T.
Evaluation of conventional and medium-performance anion exchangers for the separation of proteins 253(1982)219
Kato, Y., Nakamura, K. and Hashimoto, T.
Operational variables in medium-performance ion-exchange chromatography of proteins on DEAE-Toyopearl 650 256(1983)143
Kato, Y., Nakamura, K. and Hashimoto, T.
New ion exchanger for the separation of proteins and nucleic acids 266(1983)385
Kato, Y., Sasaki, M., Hashimoto, T., Murotsu, T., Fukushige, S. and Matsubara, K.
Separation of DNA restriction fragments by high-performance ion-exchange chromatography 265(1983)342
Kato, Y., Sasaki, M., Hashimoto, T., Murotsu, T., Fukushige, S. and Matsubara, K.
Operational variables in high-performance gel filtration of DNA fragments and RNAs 266(1983)341
Katoh, K., see Someno, T. 253(1982)81
Katsanos, N.A. and Karaiskakis, G.
Temperature variation of gas diffusion coefficients measured by the reversed-flow sampling technique 254(1983)15
Katz, E., Ogan, K. and Scott, R.P.W.
Effect of pressure on solute diffusivity, solvent viscosity and column temperature in LC 260(1983)277
Katz, E. and Scott, R.P.W.
LC system for fast, accurate analysis 253(1982)159
Katz, E.D., Ogan, K.L. and Scott, R.P.W.
Peak dispersion and mobile phase velocity in LC: the pertinent relationship for porous silica 270(1983)51
Katz, E.D. and Scott, R.P.W.
Low-dispersion connecting tubes for LC systems 268(1983)169
Katz, E.D. and Scott, R.P.W.
Use of chromatographic data to determine the molecular weight of a solute eluted from an LC column 270(1983)29
Kaurov, Y.N., see Merzlyak, M.N. 262(1983)331
Kawaguchi, Y., see Tanaka, M. 267(1983)292
Kawahara, K. and Ofuji, T.
GC determination of the glucuronide of 2-(1-hydroxy-ethyl)-7-(2-hydroxy-3-isopropyl-aminopropoxy)-benzofuran, a metabolite of befunolol, in human urine 272(1983)187
Kawai, S., see Kobayashi, K. 274(1983)313, 275(1983)394
Kawamoto, T. and Okada, E.
Separation of mono- and disaccharides by

HPLC with a strong cation-exchange resin and an acetonitrile-rich eluent 258(1983)284
Kawamoto, T., Okada, E. and Fujita, T.
Post-column derivatization of vitamin B_6 using 2,6-dibromoquinone-4-chlorimide 267(1983)414
Kawamoto, T., see Hayakawa, K. 256(1983)172
Kawamura, S., see Kamimura, H. 275(1983)81
Kawanishi, A., see Niwa, T. 272(1983)227
Kawasaki, T., Maeda, M. and Tsuji, A.
Immbolized 3α-hydroxysteroid dehydrogenase and dansyl hydrazine as a pre-labeling reagent for HPLC with fluorescence detection of bile acids 272(1983)261
Kawase, J., Takao, Y. and Tsuji, K.
Analysis of non-UV absorbing dialkyl-type cationic surfactants by LC with an on-line ion-pair extraction detector 262(1983)293
Kawase, J., Takao, Y. and Tsuji, K.
Homologous distribution analysis of imidazoline type cationic surfactants by HPLC 262(1983)408
Kawase, J., Tsuji, K. and Yasuda, Y.
Analysis of amphoteric surfactants by LC with post-column detection. III. Salt-free imidazoline amphoteric surfactants 267(1983)149
Kawase, J., Tsuji, K., Yasuda, Y. and Yashima, k.
Analysis of amphoteric surfactants by LC with post-column detection. II. Imidazoline-type amphoteric surfactants derived from sodium chloroacetate 267(1983)133
Kawase, J., Ueno, H., Nakae, A. and Tsuji, K.
HPLC of urea and related compounds with post-column derivatization 252(1982)209
Kawase, J., Ueno, H. and Tsuji, K.
Determination of allantoin and chlorohydroxyaluminium allantoinate in cosmetic and pharmaceutical products by HPLC 253(1982)237
Kawase, J., Ueno, H. and Tsuji, K.
Analysis of amphoteric surfactants by LC with post-column detection. I. Mono- and dialanine type surfactants 264(1983)415
Kawase, M., see Shirahata, A. 262(1983)451
Kayser, H., see Vensel, W.H. 266(1983)491
Kebabian, J.W., see Goldman, M.E. 275(1983)407
Keene, A.T., Anderson, L.A. and Phillipson, J.D.
Investigation of *Cinchona* leaf alkaloids by HPLC 260(1983)123
Keiser, J.E., Kirby, K.W. and Tremmel, F.
Reversed-phase HPLC separation of human phenolic metabolites of propoxur (Baygon), carbofuran and carbaryl 259(1983)186
Kennard, M.L. and Meisen, A.
GC technique for analysing partially degraded diethanolamine solutions 267(1983)373
Kennedy, J.F., see White, C.A. 264(1983)99
Kennedy, S., see Maddock, J. 272(1983)129
Kerek, F., see Ciucanu, I. 257(1983)101
Kerlavage, A.R., Weitzmann, C.J., Hasan, T. and Cooperman, B.S.
Reversed-phase HPLC of *Escherichia coli* ribosomal proteins. Characteristics of the separation of a complex protein mixture 266(1983)225
Kessler, M.J.
Quantitation of radiolabeled biological molecules separated by HPLC 255(1983)209
Kettrup, A., see Hagemeier, E. 268(1983)291
Keyzer, J.J., Wolthers, B.G., Breukelman, H., Van der Slik, W. and De Vries, K.
Determination of N^T-methylhistamine in urine by GC using nitrogen-phosphorus detection 275(1983)261
Khalil, H.A., Miltz, J. and Gilbert, S.G.
Interaction between low-molecular-weight compounds and nitrile-based polymers 267(1983)101
Khlebnikova, N.S., see Krylov, A.I. 252(1982)319
Kho, B.T., see Fong, G.W.K. 255(1983)199
Khotimchenko, S.V., see Vaskovsky, V.E. 261(1983)324
Kibwage, I.O., Roets, E. and Hoogmartens, J.
TLC of erythromycins and other macrolides 256(1983)164
Kido, A., see Shinohara, R. 256(1983)81
Kier, L.B., see Szász, G. 269(1983)91
Kim, C.
Simple and sensitive method for the determination of propylthiouracil in blood by HPLC 272(1983)376
Kim, S., see Chung, B.-G. 264(1983)321
Kim, S., see Paik, W.K. 256(1983)331
Kimata, S.-I., see Hatsumi, M. 253(1982)271
Kimoto, M., see Nakagawa, H. 260(1983)391
Kimura, M., see Panijpan, B. 258(1983)307
Kincaid, J.R., see Friley, B.K. 258(1983)310
Kinoshita, H., see Tanaka, E. 272(1983)380
Kinoshita, K., see Hashimoto, K. 260(1983)429
Kinsella, J.E., see Mai, J. 254(1983)91
Kirby, K.W., see Keiser, J.E. 259(1983)186
Kirkiacharian, S., see Farinotti, R. 269(1983)81
Kirkland, J.J., Dilks, C.H. Jr. and Yau, W.W.
Sedimentation field flow fractionation at high force fields 255(1983)255
Kirkland, J.J. and Glajch, J.L.
Optimization of mobile phases for multisolvent gradient elution LC 255(1983)27
Kiso, Y., see Hirokawa, T. 252(1982)33, 252(1982)49, 257(1983)197, 260(1983)225, 271(1983)D1
Kiso, Y., see Kuwata, K. 256(1983)303
Kiss, L., Gál, S., Toth-Martinez, B.L. and Petrikovics, I.
Use of chromatofocusing for separation of β-lactamases. II. β-Lactamase of a characterized *Pseudomonas aeruginosa* strain 262(1983)379
Kiss, L., see Gál, S. 264(1983)170
Kiss, L., see Toth-Martinez, B.L. 262(1983)373
Kitahara, H., see Ôi, N. 254(1983)282, 256(1983)154, 265(1983)117

Kitamura, T., see Kato, Y. 266(1983)49, 268(1983)425
Kitaoka, Y.
Extremely low electrophoretic mobility of picric acid in acetyl cellulose paper 252(1982)301
Kiyoshima, K., see Okabe, M. 256(1983)447
Kjøsen, H., see Henriksen, L.M. 258(1983)252
Klagsbrun, M., see Sullivan, R.C. 266(1983)301
Klebovich, I., Kapás, M. and Vereczkey, L.
Capillary GC method for determination of flumecinol in plasma and saliva 273(1983)207
Kleijn, E. van der, see Van der Kleijn, E. 275(1983)145
Klein, S.W., see Bots, A.M.B. 272(1983)421
Klemm, L.H., Louris, J.N. and Boettcher, B.
TLC and GC of some fluorobiphenyls and fluoronaphthalenes 259(1983)453
Klesper, E., see Schmitz, F.P. 267(1983)267
Klocke, J.A., see Kubo, I. 257(1983)157
Klok, J,., Cox, H.C., De Leeuw, J.W. and Schenck, P.A.
Analysis of synthetic mixtures of partially methylated alditol acetates by capillary GC, GC-electron impact MS and GC-chemical ionization MS 253(1982)55
Klöppel, H., see Heumann, K.G. 262(1983)211
Klotz, U., see Okonkwo, P.O. 272(1983)411
Knapp, D.R., see Balard, K.D. 275(1983)161
Knie, U.
Fluorimetric determination of naproxen in serum by direct quantitative HPTLC (in German) 275(1983)463
Knighton, W.B., see Connolly, M.J. 265(1983)145
Knox, M.J., Clark, W.D. and Link, S.O.
Quantitative analysis of β-phenethylamines in two *Mammillaria* species (*Cactaceae*) 265(1983)357
Knuutinen, J. and Korhonen, I.O.O.
GC separation of acetylated chlorinated phenols, guaiacols and catechols on an SE-30 quartz capillary column 257(1983)127
Knuutinen, J., see Korhonen, I.O.O. 256(1983)135
Kobari, T., see Ito, T. 274(1983)341
Kobayashi, K. and Kawai, S.
GC determination of glucose in serum with glucose oxidase-catalase system 275(1983)394
Kobayashi, K., Kawai, S., Nakano, T. and Nagatsu, T.
A new assay of monoamine oxidase by GC 274(1983)313
Kobayashi, N., Fujii, Y. and Okamoto, M.
Calcium isotope enrichment by means of counter-current electromigration using an ion-exchange resin as migration medium 252(1982)121
Kobayashi, Y., see Kamimura, H. 275(1983)81
Kocourek, J., see Turková, R. 257(1983)297
Kodama, Y., Arashidani, K. and Yoshikawa, M.
Simplified analysis of benzo[*a*]pyrene in airborne particulates by HPLC 261(1983)103
Koel, M., see Nebinger, P. 265(1983)19
Kogure, K., Nomura, M. and Okamoto, M.
Zirconium isotope separation by means of cation-exchange chromatography 259(1983)480
Köhler, J. and Schomburg, G.
Platinum complexes in reversed- and normal-phase chromatography. Analytical- and preparative-scale separations of enantiomeric olefins 255(1983)311
Kohli, J.C., see Badaisha, K.K. 268(1983)549
Kohoutek, V., see Královský, J. 265(1983)368
Koizumi, K., Okada, Y., Horiyama, S., Utamura, T., Hisamatsu, M. and Amemura, A.
Separation of cyclic (1→2)-β-D-glucans (cyclosophoraoses) produced by *Agrobacterium* and *Rhizobium*, and determination of their degree of polymerization by HPLC 265(1983)89
Kojima, I., see Okabe, M. 256(1983)447
Kojima, K., see Boonyarat, D. 274(1983)331
Kok, A. de, see De Kok, A. 252(1982)101
Kok, S.H., Buckle, K.A. and Wootton, M.
Determination of nitrate and nitrite in water using HPLC 260(1983)189
Kok, W.T., Brinkman, U.A.T. and Frei, R.W.
Amperometric detection of amino acids in HPLC with a copper electrode 256(1983)17
Kolek, E., see Lehotay, J. 258(1983)223
Komárek, K., Hornová, L. and Churáček, J.
Glass capillary GC of homologous series of esters. II. Separation of homologous series of halogenoethyl esters of aliphatic monocarboxylic acids on OV-101 252(1982)293
Komárek, K., Hornová, L., Horna, A. and Churáček, J.
Glass capillary GC of homologous series of esters. III. Separation of alkyl halogenopropionates and halogenobutyrates on OV-101 262(1983)316
Komarova, N.I., see Baram, G.I. 264(1983)69
Kömives, T.
Separation of glyceollin isomers I-III by TLC 261(1983)423
Kondo, H., see Kaji, H. 272(1983)166
Kong, R.C., see Vassilaros, D.L. 252(1982)1
König, W.A. and Benecke, I.
Enantiomer separation of polyols and amines by enantioselective GC 269(1983)19
König, W.A., Benecke, I. and Ernst, K.
Separation of chiral ketones by enantioselective GC 253(1982)267
Königsmann, W., see Dietl, J. 275(1983)423
Koontz, D.A., see Traylor, T.D. 272(1983)9
Koopmanschap, R.E., see Schreurs, V.V.A.M. 254(1983)203
Kopaciewicz, W., Rounds, M.A., Fausnaugh, J. and Regnier, F.E.
Retention model for high-performance ion-exchange chromatography 266(1983)3
Kopp, B., Jurenitsch, J., Czernia, B. and Kubelka, W.
Improved HPLC separation of cardiac

glycosides of *Urginea maritima* (L.) Baker by in series coupling of reversed-phase columns of different polarity (in German) 257(1983)137
Koppenhoefer, B., Allmendinger, H., Nicholson, G.J. and Bayer, E.
Direct resolution of enantiomers of 2- and 3-hydroxy acid alkyl esters by fused-silica capillary GC 260(1983)63
Kopperschläger, G., Lorenz, G. and Usbeck, E.
Application of affinity partitioning in an aqueous two-phase system to the investigation of triazine dye-enzyme interactions 259(1983)97
Kopperschläger, G., see Birkenmeier, G. 265(1983)27
Korf, J., see Venema, K. 260(1983)371
Korhonen, I.O.O.
GLC analyses. XV. GC separation of methyl esters of chlorinated propenoic acids on SE-30 and OV-351 quartz capillary columns 257(1983)122
Korhonen, I.O.O.
GLC analyses. XVI. Determination of monochlorinated products formed in liquid-phase chlorination of C_9-C_{12}, C_{14}, C_{16} and C_{18} *n*-alkyl acetates on SE-30 and OV-351 quartz capillary columns with temperature programming 268(1983)19
Korhonen, I.O.O.
GLC analyses. XVII. Separation of a mixture of primary C_1-C_{18} straight-chain alcohols and their propanoyl, 2-chloropropanoyl and 3-chloropropanoyl derivatives on SE-30 and OV-351 capillary columns with temperature programming 268(1983)229
Korhonen, I.O.O.
GLC analyses. XVIII. Separation of aliphatic C_1-C_{18} *n*-alkyl esters of butanoic, 2-chlorobutanoic, 3-chlorobutanoic and 4-chlorobutanoic acids with the corresponding alcohols 268(1983)437
Korhonen, I.O.O.
GLC analyses. XIX. Branched-chain alcohols and their propanoyl, monochloropropanoyl, butanoyl and monochlorobutanoyl derivatives 270(1983)171
Korhonen, I.O.O.
GLC analyses. XX. Unsaturated alcohols and the corresponding esters of propanoic and butanoic acids and their monochlorinated derivatives 270(1983)181
Korhonen, I.O.O. and Knuutinen, J.
GC and GC-MS studies of acetate esters of chlorinated phenols 256(1983)135
Korhonen, I.O.O., see Haken, J.K. 256(1983)221, 257(1983)267, 265(1983)323, 268(1983)511
Korhonen, I.O.O., see Knuutinen, J. 257(1983)127
Korhonen, R.T., Savolainen, K.E. and Mäenpää, P.H.
HPLC determination of 24,25-dihydroxyvitamin D_3 in serum 275(1983)418
Kornalík, F., see Dyr, J.E. 261(1983)163
Kornalík, F., see Fořtová, H. 259(1983)473, 260(1983)522
Koropalov, V.M., see Filatova, G.N. 264(1983)129
Kościelski, T., see Sybilska, D. 261(1983)357
Koshioka, M., Harada, J., Takeno, K., Noma, M., Sassa, T., Ogiyama, K., Taylor, J.S., Rood, S.B., Legge, R.L. and Pharis, R.P.
Reversed-phase C_{18} HPLC of acidic and conjugated gibberellins 256(1983)101
Koskas, J.P., Cillard, J. and Cillard, P.
Direct HPLC separation of hydroperoxide isomers of linoleic acid 258(1983)280
Koss, R.F., see Park, G.B. 273(1983)481
Köster, J., Zuzok, A. and Barz, W.
High-performance liquid chromatography of isoflavones and phytoalexins from *Cicer arietinum* 270(1983)392
Kostova, V., see Arsov, A. 267(1983)448
Kotrlíková, E., see Skořepa, J. 273(1983)180
Kouri, T., see Jalkanen, M. 268(1983)79
Kouřilová, D., see Šlais, K. 258(1983)57
Koval, M., see Kaniansky, D. 267(1983)67
Kovaleva, N.V., see Filatova, G.N. 264(1983)129
Kovář, J., Kahle, V. and Turánek, J.
HPLC of some AMP derivatives used as affinity ligands 258(1983)199
Kovar, J., Lawrence, A.H. and Moccia, D.
Analysis of N-alkylphthalimides and N,N'-polymethylene-bis-phthalimides in industrial dye carrier formulations by GC-MS 264(1983)297
Kovar, K.-A. and Bock, E.
Quantitative determination of a mixture of extracts of drugs from volatile oils by HPLC (in German) 262(1983)285
Kovrizhnih, V.A., see Merzlyak, M.N. 262(1983)331
Kozma, M. and Vereczkey, L.
Rapid method for determination of cimetidine in biological fluids by HPLC using Extrelut extraction 273(1983)223
Kraak, J.C., see Poppe, H. 255(1983)395
Královský, J., Plaček, K. and Kohoutek, V.
HPLC of 1-amino-9,10-anthraquinones 265(1983)368
Krasławski, A. and Kulawinek, J.M.
Analysis of the sulphonation products of 2-amino-1-naphthalenesulphonic acid by HPLC 254(1983)322
Kraus, S. and Rogers, L.B.
Effects of salts on the size exclusion behavior of poly(ethylene glycol) 257(1983)237
Krause, R.T.
Determination of fluorescent pesticides and metabolites by reversed-phase HPLC 255(1983)497
Krauss, F. and Schmidt, A.
Separation of sulphur-containing substances, amino acids and nucleotides

during gel filtration on Trisacryl GF05 by specific gel interaction 264(1983)111
Kreutz, W., see Welte, W. 259(1983)341
Kreveld, M.E. van, see Van Kreveld, M.E. 260(1983)297
Krien, P., Devant, G. and Hardy, M. Application of microbore columns to LC-MS 251(1982)129
Kristiansen, T., see Kårsnäs, P. 266(1983)643
Kritikou, L.G., see Demopoulos, C.A. 256(1983)378
Kříž, J., see Punčochářová, J. 267(1983)222
Kříž, J., see Vodička, L. 270(1983)199
Kropscott, B.E., Kastl, P.E. and Hermann, E.A. Quantitative determination of allyl chloride (3-chloropropene) in rat blood by electron-capture GC and GC-MS with selective ion monitoring 269(1983)108
Krstulović, A., see Colin, H. 255(1983)295
Krstulović, A., see Guiochon, G. 265(1983)159
Krull, I.S., Swartz, M., Hilliard, R., Xie, K.-H. and Driscoll, J.N. Trace analysis for organic nitro compounds by GC-electron-capture/photoionization detection methods 260(1983)347
Krupčík, J., see Chovancová, J. 256(1983)465
Kruppa, J., see Graeve, L. 268(1983)506
Krutzsch, H.C., see Dizdaroglu, M. 264(1983)223
Krylov, A.I. and Khlebnikova, N.S. Quantitative GLC determination of pemoline using trimethylanilinium hydroxide 252(1982)319
Ku, W.W., see Liu, R.H. 271(1983)309
Kubelka, W., see Kopp, B. 257(1983)137
Kubo, I., Klocke, J.A., Ganjian, I., Ichikawa, N. and Matsumoto, T. Efficient isolation of phytoecdysones from *Ajuga* plants by HPLC and droplet counter-current chromatography 257(1983)157
Kucera, P. and Umagat, H. Design of a post-column fluorescence derivatization system for use with microbore columns 255(1983)563
Kudoh, M., Matoh, I. and Fudano, S. Determination of tertiary aliphatic amines by HPLC 261(1983)293
Kudoh, M. and Yamaguchi, S. Selective adsorption of non-ionic surfactants using an anion-exchange resin in the cobaltithiocyanate form 260(1983)483
Kuhn, D.M., see Wolf, W.A. 275(1983)1
Kuhnz, W., Zech, K., Lupp, R., Jung, G., Voelter, W. and Matzkies, F. Quantitative determination of O-(β-hydroxyethyl)-rutosides in serum by HPLC 272(1983)333
Kuijpers, A.T.J.M., see Deelder, R.S. 255(1983)545
Kuksis, A., Marai, L. and Myher, J.J. Strategy of glycerolipid separation and quantitation by complementary analytical techniques. Plenary lecture 273(1983)43
Kuksis, A., see Marai, L. 268(1983)447
Kulawinek, J.M., see Krasławski, A. 254(1983)322
Kumanotani, J., see Oshima, R. 259(1983)159, 265(1983)335
Kuo, J.C. and Yeung, E.S. Shale oil characterization by HPLC and optical activity detection 253(1982)199
Kuper, E.A., see Baram, G.I. 264(1983)69
Kuramoto, S., see Abe, I. 258(1983)35
Kurenbin, O.I., see Maltsev, V.G. 273(1983)95
Kurganov, A.A., Tevlin, A.B. and Davankov, V.A. High-performance ligand-exchange chromatography of enantiomers. Studies on polystyrene-type chiral phases bonded to microparticulate silicas 261(1983)223
Kurganov, A.A., see Roumeliotis, P. 255(1983)51
Kurhekar, M.P., see Mirashi, S.V. 268(1983)352
Kurita, R., see Naito, K. 268(1983)359
Kuroiwa, Y., see Tanaka, E. 272(1983)380
Kuromizu, K., Higuchi, H., Abe, o. and Shimokawa, Y. Highly sensitive method for determination of esterase activity of α-chymotrypsin and α-chymotrypsin-like enzymes using micro HPLC 267(1983)199
Kuster, T., see Wetzel, E. 268(1983)177
Kusz, P., Andrysiak, A., Czelakowski, W. and Bobiński, J. GC separation of chlorinated C_1-C_3 hydrocarbons 254(1983)163
Kusz, P., Andrysiak, A. and Iwański, L. HPLC of bis(2-ethylhexyl)peroxydicarbonate on spherical silica gel 267(1983)227
Kuttab, S.H., see Maksoud, H.M. 274(1983)149
Kuwata, K., Yamada, K., Yamasaki, H., Yamazaki, Y. and Kiso, Y. Rapid determination of solvent components in paint by computer-aided fused-silica capillary GC 256(1983)303
Kuye, J.O., Wilson, M.J. and Walle, T. GC analysis of chloroquine after a unique reaction with chloroformates 272(1983)307
Kuzmin, S.V., see Baram, G.I. 264(1983)69
Kwa, T.L. High-pressure GC. I. A precision high-pressure gas chromatograph for isobaric-isothermal measurements 270(1983)105

L

Labadie, R.P., see Van der Sluis, W.G. 259(1983)522
Labarre, P., see Michelot, J. 257(1983)395
Lacroix, A., see Bhat, P.V. 260(1983)129, 272(1983)269

Lacroix, G., see Tam, G.K.H. 259(1983)350
Laere, A.J. van, see Van Laere, A.J. 267(1983)439
Laganà, A. and Rotatori, M.
HPLC procedure for the analysis of urinary 3-methoxy-4-hydroxymandelic acid 275(1983)168
Lagarde, M., see Guichardant, M. 275(1983)400
Lagerström, P.-O., Marle, I. and Persson, B.-A.
Solvent extraction of tricyclic amines from blood plasma and LC determination 273(1983)151
Lagu, A.L., see Hussey, R.L. 268(1983)120
Lai, C.-M., see Sum, C.Y. 254(1983)187
Lai, S.-T. and Locke, D.C.
Separation of styrene oligomers using normal nitrile-bonded phase LC with UV and fluorescence detection 252(1982)325
Lai, S.-T. and Locke, D.C.
Stepwise pyrolysis-LC and pyrolysis-GC of polystyrene 255(1983)511
Lam, H., Webber, B.B., Wilson, J.B. and Huisman, T.H.J.
Identification of the α chain abnormal hemoglobin Jackson (α127 Lys→Asn) after isolation of the core peptide by HPLC 269(1983)119
Lam, H., see Nakatsuji, T. 259(1983)511
Lambe, R.F., see Brodie, R.R. 274(1983)179
Lambelin, P., see Seidah, N.G. 266(1983)213
Lambert, D.T. and Lerner, A.B.
Optimization of a melanotropin-receptor binding assay by reversed-phase HPLC 266(1983)567
Lamberto, S., Donatella, D. and Corrado, T.
Use of high-molecular-weight "neo" hydroxamic acids as the stationary phase in column extraction chromatography 270(1983)324
Lambrou, F., see Grego, B. 266(1983)89
Lambrou, F., see Stanton, P.G. 266(1983)273
Lamiable, D. and Millart, H.
HPLC determination of 4-aminopyridine and 3,4-diaminopyridine in rat cerebrospinal fluid and serum 272(1983)221
Lamine, L., see Spreux-Varoquaux, O. 274(1983)187
Lamplugh, S.M.
Comparison of three methods for the extraction of aflatoxins from human serum in combination with a HPLC assay 273(1983)442
Lancker, M.A. van, see Van Lancker, M.A. 254(1983)45
Landis, J.B., see Asmus, P.A. 264(1983)241
Lang, J.F., see Chan, K.Y. 272(1983)396
Lang, J.R., Honigberg, I.L. and Stewart, J.T.
Post-column air-segmentation reactor for the fluorometric detection of reserpine by LC 252(1982)288
Lang, J.R., Stewart, J.T. and Honigberg, I.L.
Post-column air-segmentation photochemical reactor for the fluorometric detection of reserpine by LC 264(1983)144
Langenhove, H. van, see Van Langenhove, H. 257(1983)170
Lankmayr, E.P., see Vouros, P. 251(1982)175
Lanser, A.C. and Emken, E.A.
Purification of methyl arachidonate using silver resin chromatography 256(1983)460
Lant, M.S., see Alcock, N.J. 251(1982)165
Large, D.G., see White, C.A. 264(1983)99
Larmann, J.P., DeStefano, J.J., Goldberg, A.P., Stout, R.W., Snyder, L.R. and Stadalius, M.A.
Separation of macromolecules by reversed-phase HPLC. Pore-size and surface-area effects for polystyrene samples of varying molecular weight 255(1983)163
Larsen, P., see Schou, O. 254(1983)289
Larson, J.R. and Pfeiffer, C.D.
Determination of organic ionic compounds by LC with indirect photometric detection 259(1983)519
Larson, P., see Plotczyk, L.L. 257(1983)211
Later, D.W., see Vassilaros, D.L. 252(1982)1
Latham, K.R., see Sellitti, D.F. 268(1983)300
Latif, S., Haken, J.K. and Wainwright, M.S.
Improved analysis of sulphur gases on porous polymers 258(1983)228
Latif, S., Haken, J.K. and Wainwright, M.S.
Trace water analysis in gases using reaction GC 258(1983)233
Lau, M., see Spalik, J. 253(1982)289
Lau, P.Y., see Fox, A. 256(1983)429
Launay, J.-M., see Fay, D.D. 252(1982)338
Lavoie, J.M. and Back, P.S.
Separation and analysis of 2-(5-cyanotetrazolato)pentaamminecobalt(III) and related cobalt(III) complexes by capillary tube isotachophoresis 264(1983)329
Lavy, T.L., see Bouchard, D.C. 270(1983)396
Lawrence, A.H., see Kovar, J. 264(1983)297
Lawrence, J.F., see Tam, G.K.H. 259(1983)350
Lazure, C., see Dennis, M. 266(1983)163
Lazure, C., see Seidah, N.G. 266(1983)213
Le Hir, A., see Montay, G. 272(1983)359
Le Moing, J.P., see Vajta, S. 274(1983)139
Leadbetter, B.M., see Graham, D.J.M. 275(1983)211
Lebl, M.
Amino acids and peptides. CLXXXI. Separation of diastereoisomers of oxytocin analogues 264(1983)459
Lebl, M. and Gut, V.
Calculation of the rate constant of a reversible reaction from the chromatographic peaks for muramyldipeptide anomers 260(1983)478
Lechtenbörger, K., see Hagemeier, E. 268(1983)291
Leclerc, A., see Rouan, M.C. 275(1983)133
Lecompte, D., see Miribel, L. 268(1983)321
Lederer, M., see Bij, K.E. 268(1983)311
Lederkremer, G.Z. and Parodi, A.J.
Separation of dolichol monophosphate mannose and dolichol monophosphate glucose by TLC 262(1983)299
Lee, A., see Malcolm, S.L. 273(1983)327

Lee, K.-S. and Yeh, T.-L.
Quantitative HPLC analysis of the commercial dyestuff G acid and Gama acid 260(1983)97
Lee, M.L., see Peaden, P.A. 259(1983)1
Lee, M.L., see Vassilaros, D.L. 252(1982)1
Lee, R., see Shimohigashi, Y. 266(1983)555
Lee, R.E. Jr., see Baust, J.G. 261(1983)65
Lee, R.M. and McDowall, R.D.
Comparison of two HPLC methods for the determination of oxmetidine and its metabolites in plasma, bile and urine samples 273(1983)335
Lee, R.M., see McDowall, R.D. 275(1983)377
Lee, T., see Wood, R. 254(1983)237
Lee, T.L., see Hackman, M.R. 273(1983)347
Lee, Y.-C., Karnatz, N.N., Baaske, D.M., Eliason, M.S. and Alam, A.S.
GC determination of acetone in hydroxyethyl starches 269(1983)28
Leenheer, A.P. de, see De Leenheer, A.P. 254(1983)45, 273(1983)141
Leeuw, J.W. de, see De Leeuw, J.W. 253(1982)55
Leever, W., see Venema, K. 260(1983)371
Legge, R.L., see Koshioka, M. 256(1983)101
Lehotay, J., Liška, O., Kolek, E., Garaj, J. and Guiochon, G.
LC of metal complexes of N-disubstituted dithiocarbamic acids. V. Determination of equilibrium and rate constants for ligand-exchange reactions by HPLC 258(1983)223
Lehtonen, P.
Reversed-phase LC elution characteristics of substituted N-ethylbenzamides 267(1983)277
Leitold, A. and Vigh, G.
p*K* Values of phosphate buffer components in methanol-water reversed-phase eluents 257(1983)384
Leja, B., see Haky, J.E. 264(1983)287
Lelorier, J., see Colin, P. 273(1983)367
Leluk, J., see Wilimowska-Pelc, A. 269(1983)22
Lembo, S., Marzillo, G. and Sgambati, C.
GLC method for determining propylenthiourea in rat tissues and fluids 267(1983)427
Lemley, A.T., see Spalik, J. 253(1982)289
Lennard, M.S. and Silas, J.H.
Rapid determination of metoprolol and α-hydroxymetoprolol in human plasma and urine by HPLC 272(1983)205
Leonard, J., see Sista, H.S. 273(1983)464
Lepri, L., Desideri, P.G. and Heimler, D.
HPTLC of indole derivatives on layers of Sil C_{18}-50 untreated or impregnated with N-dodecylpyridinium chloride and on ammonium tungstophosphate 260(1983)383
Lepri, L., Desideri, P.G. and Heimler, D.
Chromatographic behaviour of amino acids, their derivatives and peptides on layers of ammonium tungstophosphate and silanized silica gel 268(1983)493
Lepri, L., Desideri, P.G., Heimler, D. and Giannessi, S.
HPTLC of diastereomeric di- and tripeptides on ready-for-use plates of silanized silica gel and on ammonium tungstophosphate layers 265(1983)328
Lerner, A.B., see Lambert, D.T. 266(1983)567
Leroux, F., see Sioufi, A. 272(1983)103
Leshem, R., see Grushka, E. 255(1983)41
Lester, J.N., see Clark, A.I. 252(1982)147
Letcher, T.M., see Ashworth, A.J. 262(1983)33
Levi, F., see Gonnord, M.-F. 264(1983)1
Levine, S.P., Homsher, M.T. and Sullivan, J.A.
Comparison of methods of analysis of polychlorinated biphenyls in oils 257(1983)255
Levsen, K., Schäfer, K.H. and Freudenthal, J.
Determination of phenylureas by on-line LC-MS 271(1983)51
Lewis, J.J., Rogers, L.B. and Pauls, R.E.
Solvent selectivity in reversed-phase HPLC separation of isomers of polystyrene oligomers 264(1983)339
Lewis, P.A., see Maddock, J. 272(1983)129
L'Heureux, L., see Sayem-El-Daher, N. 256(1983)313
Li, S.-C., see Iwase, H. 267(1983)238
Li, Y.-T., see Iwase, H. 267(1983)238
Libera, L. dalla, see Dalla Libera, L. 264(1983)164
Liebich, H.M.
GC-MS determination of total 4-heptanone, a new marker in diabetes mellitus 273(1983)67
Ligny, C.L. de, see De Ligny, C.L. 253(1982)23
Likhite, S.M., see Panse, D.G. 264(1983)279
Lillehoj, E.B., see Wall, J.H. 268(1983)461
Lim, C.K. and Ayres, D.C.
HPLC of aryltetrahydronaphthalene lignans 255(1983)247
Lin, E.T., see Noonan, I.A. 273(1983)458
Lin, S.-J., see Wu, H.-L. 269(1983)183
Lindblom, H.
Rapid chromatographic method for the isolation of glucose-6-phosphate dehydrogenase from yeast enzyme concentrate 266(1983)265
Lindblom, H., Axiö-Fredriksson, U.-B., Cooper, E.H. and Turner, R.
Separation of urine proteins on the anion-exchange resin Mono Q™ 273(1983)107
Lindblom, H., Söderberg, L., Cooper, E.H. and Turner, R.
Urinary protein isolation by high-performance ion-exchange chromatography 266(1983)187
Linde, S., see Welinder, B.S. 257(1983)162, 265(1983)301
Lindfors, A., see Eksborg, S. 274(1983)263
Lindgren, B., see Åkerblom, M. 258(1983)302
Ling, T.G.I. and Mattiasson, B.
Comparison between binding analyses performed by equilibrium dialysis and partitioning in aqueous two-phase systems exemplified by the binding of Cibacron Blue to serum albumin 252(1982)159

Ling, T.G.I. and Mattiasson, B.
Poly(ethylene glycol)- and poly(vinyl alcohol)-substituted carbohydrate gels for "mild" hydrophobic chromatography 254(1983)83
Link, S.O., see Knox, M.J. 265(1983)357
Linnett, P., see Partis, M.D. 259(1983)189
Linton, R.W., see Bush, S.G. 260(1983)1
Linz, U.
Volatile buffer system for high-performance anion-exchange chromatography of nucleotides 260(1983)161
Liou, R., see Germershausen, J. 270(1983)383
Lipavská, H., see Jizba, J.V. 257(1983)185
Lipczyńska-Kochany, E.
HPLC analysis of naphtho- and anthranilohydroxamic acids 260(1983)493
Lipkowski, J., see Sybilska, D. 253(1982)95
Liška, O., see Lehotay, J. 258(1983)223
Liskamp, R.M.J., see Winogard, B. 275(1983)145
Little, C.J., Tompkins, D.J., Stahel, O., Frei, R.W. and Werkhoven-Goewie, C.E.
Applications of a microprocessor-controlled valve-switching unit for automated sample cleanup and trace enrichment in HPLC 264(1983)183
Little, C.J., see Werkhoven-Goewie, C.E. 255(1983)79
Liu, G.H., see Bayer, E. 256(1983)201
Liu, R.H. and Ku, W.W.
Chiral stationary phases for the GLC separation of enantiomers (Review) 271(1983)309
Liu, S.H., see Slifkin, M.A. 269(1983)103
Liu, Y., Griesemer, E.C., Budd, R.D. and Noguchi, T.T.
Determination of lidocaine in postmortem fluids and tissues 268(1983)329
Lizana, J., see Fägerstam, L.G. 266(1983)523
Lloyd, J.B.F.
Deoxygenation of small samples for reductive mode electrochemical detection in HPLC 256(1983)323
Lloyd, J.B.F.
HPLC of organic explosives components with electrochemical detection at a pendant mercury drop electrode 257(1983)227
Llyod, J.B.F.
Clean-up procedures for the examination of swabs for explosives traces by HPLC with electrochemical detection at a pendent mercury drop electrode 261(1983)391
Lo, D.S.-T., see Dutt, M.C. 267(1983)117
Lobstein-Guth, A., Briançon-Scheid, F. and Anton, R.
Analysis of terpenes from *Ginkgo biloba* L. by HPLC 267(1983)431
Lochmüller, C.H. and Hill, W.B. Jr.
Saccharide separations in reversed-phase HPLC using *n*-alkyl amine mobile phase additives 264(1983)215
Lochrie, M.A., see Power, S.D. 266(1983)585
Locke, D.C., see Lai, S.-T. 252(1982)325, 255(1983)511
Lockwood, F.E., Matienzo, L.J. and Sprissler, B.
Reversed-phase LC separation and quantification of mixtures of fatty alcohols and esters in hydrocarbon bases 262(1983)397
Loffet, A., see Viville, R. 262(1983)411
Lombosi, E.R., see Budahegyi, M.V. 271(1983)213
Lombosi, T.S., see Budahegyi, M.V. 271(1983)213
Longeray, R., see Da, S.L. 268(1983)1
Longuemard, N., see Serve, L. 259(1983)319
Lonsdorfer, M., Clements, N.C. Jr. and Wittliff, J.L.
Use of HPLC in the evaluation of the synthesis and binding of fluorescein-linked steroids to estrogen receptors 266(1983)129
Loo, T.L., see Rosenblum, M.G. 272(1983)200
Loose, R. de, see De Loose, R. 259(1983)291
Lopata, A., see Valkó, K. 252(1982)77
Lopez de Haddad, M.P., see Newbery, J.E. 260(1983)173
Lorenz, G., see Kopperschläger, G. 259(1983)97
Louris, J.N., see Klemm, L.H. 259(1983)453
Low, G.K.C., Haddad, P.R. and Duffield, A.M.
Chromatographic study of the reaction of mercury(II) and silver(I) ions with nickel dithiocarbamate complexes derived from some aromatic amine drugs 254(1983)123
Low, G.K.C., Haddad, P.R. and Duffield, A.M.
Analysis of some commercial preparations for migraine treatment using ion-pair HPLC with addition of salts to the mobile phase 261(1983)345
Low, T.L.K., McClure, J.E., Naylor, P.H., Spangelo, B.L. and Goldstein, A.L.
Isolation of thymosin α_1 from thymosin fraction 5 of different species by HPLC 266(1983)533
Lowden, J.A., see Strasberg, P.M. 261(1983)419
Lowe, C.R., see Small, D.A.P. 266(1983)151
Lowe, J.E., see Hull-Ryde, E.A. 275(1983)411
lozier, J., Takahashi, N. and Putnam, F.W.
Purification of cyanogen bromide fragments from β-2-glycoprotein I by HPLC 266(1983)545
Lozoya, X., see Enríquez, R.G. 258(1983)297
Lu, H.S., see Oray, B. 270(1983)253
Lu, P., see Wang, C. 262(1983)352
Luckhurst, D.G., see Co-Sarno, M.E. 266(1983)105
Luderer, J.R., Riley, D.L. and Demers, L.M.
Rapid extraction of arachidonic acid metabolites utilizing octadecyl reversed-phase columns 273(1983)402
Lund, U., see Hansen, S.H. 260(1983)156, 270(1983)77
Lupp, R., see Kuhnz, W. 272(1983)333
Lussier, A., see Marceau, F. 266(1983)173

M

Macášek, F., see Kaniansky, D. 258(1983)238
McBee, G.G. and Maness, N.O.
Determination of sucrose, glucose and fructose in plant tissue by HPLC 264(1983)474
McCalley, D.V.
Analysis of cinchona alkaloids by HPLC 260(1983)184
McClintock, R., see Rivier, J. 268(1983)112
McCloskey, J.A., see Sethi, S.K. 254(1983)109
McClure, J.E., see Low, T.L.K. 266(1983)533
McCoy, B.J., see Hidalgo, R.O. 254(1983)1
McCoy, R.E., see De los Angeles Barcelón, M. 260(1983)147
MacDonald, I.A. and Rochon, Y.P.
Affinity chromatography of bile salt 7α-, 7β- and 12α-hydroxysteroid dehydrogenases on immobilized Procion Red and Cibacron Blue Sepharose 4B columns 259(1983)154
McDonald, J.R. and Houghton, C.
Separation of N-carbomethoxy-1,2- and -1,4-dihydropyridines by TLC and CC 262(1983)431
McDowall, M.A., see Alcock, N.J. 251(1982)165
McDowall, R.D. and Lee, R.M.
The assay of a novel histamine H_2-receptor antagonist, SK&F 93479, in human plasma by normal-phase HPLC 275(1983)377
McDowall, R.D., see Lee, R.M. 273(1983)335
McErlane, K.M. and Pillai, G.K.
GLC resolution and assay of tocainide enantiomers using a chiral capillary column and study of their selective disposition in man 274(1983)129
McGilveray, I.J., see Charette, C. 274(1983)219
McGuffin, V.L. and Novotný, M.
Optimization and evaluation of packed capillary columns for HPLC 255(1983)381
McGuire, J.M., see Vouros, P. 251(1982)175
McHale, S., see Conder, J.R. 258(1983)1
McIntyre, A.E., see Clark, A.I. 252(1982)147
McLaughlin, I.G., see Greizerstein, H.B. 264(1983)312
McLaughlin, L.W., see Bischoff, R. 257(1983)305, 270(1983)117
McLean, A.E.M., see Shaw, I.C. 275(1983)206
McLeod, A., see Verghese, C. 275(1983)367
McLeod, W.R., see Sitaram, B.R. 275(1983)21
McMurrough, I. and Hennigan, G.P.
Influence of organic modifiers on the isocratic reversed-phase HPLC of flavonol glycosides from brewer's hops 258(1983)103
McNally, M.E. and Grob, R.L.
Determination of the solubility limits of organic priority pollutants by GC headspace analysis 260(1983)23
McWha, J.A., see Jackson, D.L. 267(1983)242
Madden, B.G., see Haken, J.K. 256(1983)221, 267(1983)1
Maddock, J., Lewis, P.A., Woodward, A., Massey, P.R. and Kennedy, S.
Determination of isosorbide dinitrate and its mononitrate metabolites in human plasma by HPLC-thermal energy analysis 272(1983)129
Madelmont, J.C., see Michelot, J. 257(1983)395
Madey, R., see Huang, J.-C. 256(1983)213, 261(1983)1
Madsen, S.M.
Quantitative determination of the γ-aminobutyric acid agonist, 4,5,6,7-tetrahydroisoxazolo[5,4-*c*]pyridin-3-ol, in serum by HPLC 274(1983)209
Maeda, K., see Kakehi, K. 272(1983)1
Maeda, K., see Niwa, T. 272(1983)227
Maeda, M., see Kamada, S. 272(1983)29
Maeda, M., see Kawasaki, T. 272(1983)261
Maeda, M., see Nakagawa, A. 256(1983)231
Maeda, M., see Oi, T. 270(1983)7
Mäenpää, P.H., see Korhonen, R.T. 275(1983)418
Maes, R.A.A., see Plomp, T.A. 273(1983)379
Maguire, R.J. and Tkacz, R.J.
Analysis of butyltin compounds by GC. Comparison of flame photometric and atomic absorption spectrophotometric detectors 268(1983)99
Mahlberg, P.G., see Turner, J.C. 253(1982)295
Mahon, J.P., see Burchill, P. 265(1983)223
Mahuran, D.J., see Clements, P.R. 261(1983)77
Mahuzier, G., see Farinotti, R. 269(1983)81
Mahuzier, G., see Prognon, P. 272(1983)193
Mai, J., German, B. and Kinsella, J.E.
Prostaglandins and thromboxane: *tert.*-butyldimethylsilyl ethers as derivatives for their analyses by GC-MS-selected ion monitoring 254(1983)91
Mai, K., see Sum, C.Y. 254(1983)187
Mailhe, L., see Bauer, M. 259(1983)360
Mainville, C., see Charette, C. 274(1983)219
Maiorino, M., see Ursini, F. 270(1983)301
Maitra, A.M., see Dilli, S. 254(1983)133
Makarenko, N.P. and Yashin, Y.I.
Analysis of organometallic compounds by LC 257(1983)59
Makino, Y., see Kadofuku, T. 275(1983)71
Maksoud, H.M., Kuttab, S.H., Neumeyer, J.L. and Vouros, P.
Analysis of N-*n*-propylnorapomorphine in plasma and tissue by capillary GC-electron-capture detection 274(1983)149
Malcolm, S.L., Lee, A. and Groves, J.K.
HPLC analysis of the new hypoxic cell radiosensitiser, Ro 03-8799, in biological samples 273(1983)327
Maltsev, V.G., Zimina, T.M., Belenkii, B.G. and Kurenbin, O.I.
Microbore column exclusion chromatographic method for studying protein association and its relation with enzymatic activity 273(1983)95
Man, B.M. de, see De Man, B.M. 252(1982)255
Manabe, T. and Okuyama, T.
Quantitative analysis of two-dimensional

electropherograms with a television camera-microcomputer system 264(1983)435
Manahan, S.E., see Kapila, S. 259(1983)205
Manahan, S.E., see Orazio, C.E. 262(1983)434
Mancinelli, A., see Caccia, S. 252(1982)310
Maness, N.O., see McBee, G.G. 264(1983)474
Mangia, A., see Boselli, T. 265(1983)347
Mangoni, P., see Sioufi, A. 275(1983)201
Mann, W.C., see Smethurst, A.M. 274(1983)421
Manning, J.N., see Ryan, P.A. 275(1983)31
Manzocchi, A., see Biondi, P.A. 273(1983)393
Marafioti, R.A., see Spittler, T.D. 255(1983)191
Marai, L. and Kuksis, A.
Simultaneous quantitation of Krebs cycle and related acids by mass fragmentography 268(1983)447
Marai, L., see Kuksis, A. 273(1983)43
Marcato, B., see Sevini, F. 260(1983)507
Marceau, F., Drumheller, A., Gendreau, M., Lussier, A. and St-Pierre, S.
Rapid assay of human plasma carboxypeptidase N by HPLC separation of hippuryl-lysine and its product 266(1983)173
Marchand, B., Behl, H.M. and Rodriguez, E.
Application of HPLC for analysis and isolation of sesquiterpene lactones 265(1983)97
Marchessault, R.P., see Green, T.P. 273(1983)426
Marçot, B., see Vallette, F.M. 257(1983)285
Mareš, P., Ranný, M., Sedláček, J. and Skořepa, J.
Chromatographic analysis of blood lipids. Comparison between GC and TLC with flame ionization detection 275(1983)295
Mareš, P., Skořepa, J., Šindelková, E. and Tvrzická, E.
GLC analysis of intact long-chain triglycerides 273(1983)172
Mareš, P., see Skořepa, J. 273(1983)180
Margoliash, E., see Vensel, W.H. 266(1983)491
Mariani, L., see Citti, L. 261(1983)315
Marie, P., see Calaf, R. 272(1983)385
Marino, G., see Pucci, P. 270(1983)371
Mariotte, N., see Jouve, J. 274(1983)53
Markides, K., Blomberg, L., Buijten, J. and Wännman, T.
Cyanosilicones as stationary phases in GC. I. 254(1983)53
Markides, K., Blomberg, L., Buijten, J. and Wännman, T.
Cyanosilicones as stationary phases in GC. II. Gum and rubber phases on fused silica 267(1983)29
Markides, K., see Buijten, J. 268(1983)387
Marle, I., see Lagerström, P.-O. 273(1983)151
Marrs, R.P., see Campeau, J.D. 262(1983)334
Marsh, D.J., see Vallette, F.M. 257(1983)285
Marshall, R.C., see Strüssmann, A. 268(1983)306
Marsili, I., see Rappuoli, R. 268(1983)543
Märtensson, J., see Kågedal, B. 274(1983)95
Martin, J.J., see Bossle, P.C. 267(1983)209
Martin, L.E., Oxford, J. and Tanner, R.J.N.
Use of HPLC-MS for the study of the metabolism of ranitidine in man 251(1982)215
Martin, R.A. Jr., see Hurst, W.J. 265(1983)353
Marzillo, G., see Lembo, S. 267(1983)427
Marzo, A., Quadro, G. and Treffner, E.
GLC evaluation of fenquizone in biological samples for pharmacokinetic investigations 272(1983)95
Mascher, H., see Nitsche, V. 273(1983)449
Mascher, W.G., see Hussey, R.L. 268(1983)120
Maskarinec, M.P., Vargo, J.D. and Sepaniak, M.J.
Characterization of phenolic compounds by open-tubular LC 261(1983)245
Massey, P.R., see Maddock, J. 272(1983)129
Masson, P. and Vallin, P.
Possibilities of study of the human plasma cholinesterase variants by affinity electrophoresis (in French) 273(1983)289
Massoulié, J., see Vallette, F.M. 257(1983)285
Masters, R.G., see Nakamura, G.R. 264(1983)336
Matano, O., see Shiga, N. 257(1983)151
Matarese, R.M. and Zamponi, C.
Determination of glycerol in biological samples 273(1983)398
Matasker, J., see Schmeltz, I. 268(1983)31
Mathela, C.S., see Taskinen, J. 262(1983)364
Mathela, D.K., see Taskinen, J. 262(1983)364
Mathews, E.L., see Barden, A.E. 275(1983)229
Mathiasson, L., see Audunsson, G. 261(1983)253
Matienzo, L.J., see Lockwood, F.E. 262(1983)397
Matlis, R., see Greenblatt, D.J. 275(1983)450
Matoh, I., see Kudoh, M. 261(1983)293
Matolcsy, G., see Cserháti, T. 270(1983)97
Matsubara, K., see Kato, Y. 265(1983)342, 266(1983)341
Matsuda, M., see Onodera, S. 265(1983)201
Matsumoto, H., see Kamimura, H. 275(1983)81
Matsumoto, M., see Shimizu, R. 253(1982)101
Matsumoto, T., see Kubo, I. 257(1983)157
Matsumoto, U., Shibusawa, Y. and Tanaka, Y.
Surface affinity chromatographic separation of blood cells. III. Effect of molecular weight of polyethylene glycol bonded stationary phases on elution behaviour of human blood cells 268(1983)375
Matsunaga, Y., see Miyazaki, H. 274(1983)75
Matsushita, S., Tada, Y., Baba, N. and Hosako, K.
High-performance ion chromatography of anions 259(1983)459
Mattiasson, B., see Ling, T.G.I. 252(1982)159, 254(1983)83
Matucha, M., see Hušek, P. 252(1982)217
Matzkies, F., see Kuhnz, W. 272(1983)333
Maurer, H. and Pfleger, K.
Screening procedure for detecting butyrophenone and bisfluorophenyl neuroleptics in urine using a computerized GC-MS technique 272(1983)75

Mawhinney, T.P.
Separation and analysis of sulfate, phosphate and other oxyanions as their *tert.* -butyldimethylsilyl derivatives by GLC and MS 257(1983)37
Mayer, B., see Gleispach, H. 273(1983)161, 273(1983)166
Mayer, G.S. and Shoup, R.E.
Simultaneous multiple electrode LC-electrochemical assay for catecholamines, indoleamines and metabolites in brain tissue 255(1983)533
Mayhew, J.W., Fiore, C., Murray, T. and Barza, M.
An internally-standardized assay for amphotericin B in tissues and plasma 274(1983)271
Maylin, G.A., see Henion, J. 271(1983)107
Mazza, G.
GC-MS investigation of the volatile components of myrtle berries (*Myrtus communis* L.) 264(1983)304
Mazzo, D.J., Cheng, Z.B., Uden, P.C. and Rausch, M.D.
HPLC of bis(η^5-1,2,3,4,5-pentamethylcyclopentadienyl)-titanium, zirconium and hafnium dichlorides 269(1983)11
Mazzo, D.J., Didriksen, L., Moriarty, K.J., Uden, P.C. and Rausch, M.D.
HPLC of homologous titanaindene complexes 270(1983)191
Meek, J.L.
Derivatizing reagents for HPLC detection of peptides at the picomole level 266(1983)401
Meeuwissen, C.A.J.M., see Van Boekel, M.A.J.S. 261(1983)176
Meghal, S.K., see Mirashi, S.V. 268(1983)352
Meiselman, S., see Christensen, R.G. 271(1983)61
Meisen, A., see Kennard, M.L. 267(1983)373
Meisenberg, G., see Simmons, W.H. 266(1983)483
Melcher, F.W., see Heckers, H. 256(1983)185
Melda, K., see Springston, S.R. 267(1983)395
Mellerio, G., see Allievi, C. 261(1983)311
Meloni, M., see Cabras, P. 256(1983)176
Menard, D., see Bauer, M. 259(1983)360
Mendel, R.R. and Alikulov, Z.A.
Reversible immobilization of molybdenum cofactor on a gel matrix via sulphydryl groups 267(1983)409
Menge, G. and Dubois, J.P.
Determination of oxcarbazepine in human plasma by HPLC 275(1983)189
Mentlein, R. and Vowinkel, E.
Simple screening method for the separation and identification of sphagnorubins, a new class of anthocyanidins 268(1983)138
Merdjan, H., Bonnat, C., Singlas, E. and Diquet, B.
Measurement of ornidazole by HPLC 273(1983)475
Mernke, E., see Blasius, E. 268(1983)477
Merzlyak, M.N., Kovrizhnih, V.A. and Kaurov, Y.N.
Improved solvent system for plant pigment separation on silica gel thin layers 262(1983)331
Mesrob, B., see Arsov, A. 267(1983)448
Mestechkina, N.M., see Zaslavsky, B.Y. 253(1982)139, 253(1982)149, 256(1983)49, 260(1983)329
Mészáros, S.Y., see Budahegyi, M.V. 271(1983)213
Metcalf, R., see Graham, D.J.M. 275(1983)211
Metche, M., see Girardin, M. 264(1983)155
Metelitsa, V.I., see Piotrovskii, V.K. 275(1983)195
Metz, S.A., Hall, M.E., Harper, T.W. and Murphy, R.C.
Rapid extraction of leukotrienes from biologic fluids and quantitation by HPLC 275(1983)468
Meyers, W.E., see Coleman, D.R. 256(1983)363
Meyniel, G., see Michelot, J. 257(1983)395
Micera, G., see Gessa, C. 268(1983)539
Michelot, J., Moreau, M.F., Madelmont, J.C., Labarre, P. and Meyniel, G.
Determination of adiphenine, diphenylacetic acid and diethylaminoethanol by HPLC 257(1983)395
Mier, P.D., see Feyen, J.H.M. 259(1983)338
Miheeva, L.M., see Zaslavsky, B.Y. 253(1982)139, 253(1982)149, 256(1983)49
Mikeš, O., Štrop, P., Hostomská, Z., Smrž, M., Čoupek, J., Frydrychová, A. and Bareš, M.
Ion-exchange derivatives of Spheron. IV. Phosphate derivatives 261(1983)363
Mikeš, O., see Hostomská, Z. 267(1983)355
Mikeš, O., see Vrátný, P. 257(1983)23
Miles, C.J. and Brezonik, P.L.
High-performance size exclusion chromatography of aquatic humic substances 259(1983)499
Milkova, A., see Decheva, R. 270(1983)348
Millart, H., see Lamiable, D. 272(1983)221
Miller, A.M., see Chang, S.F. 272(1983)341
Miller, M.L., see Bush, S.G. 260(1983)1
Miller, R.H., see Echols, R.E. 262(1983)257
Miller, R.L., Ettre, L.S. and Johansen, N.G.
Quantitative analysis of hydrocarbons by structural group type in gasolines and distillates. II. LC 259(1983)393
Miller, R.L., Ettre, L.S. and Johansen, N.G.
Quantitative analysis of hydrocarbons by structural group type in gasolines and distillates. III. Combined use of LC and GC 264(1983)19
Miller, R.L., see Johansen, N.G. 256(1983)393
Milon, H. and Bur, H.
MS of biogenic catecholamine ion pairs by direct liquid introduction 271(1983)83
Miltenburg, J.C. van, see Van Miltenburg, J.C. 268(1983)147
Miltz, J., see Khalil, H.A. 267(1983)101
Milward, L.J., see Smith, A.E. 265(1983)378

Minatogawa, Y., Igarashi, Y. and Noguchi, T.
Determination of oxypertine in human serum by HPLC 274(1983)413
Miners, J.O., Fearnley, I., Smith, K.J., Birkett, D.J., Brooks, P.M. and Whitehouse, M.W.
Analysis of D-penicillamine in plasma by fluorescence derivatisation with N-[*p*-(2-benzoxazolyl)-phenyl] maleimide and HPLC 275(1983)89
Minobe, S., Sato, T., Tosa, T. and Chibata, I.
Characteristics of immobilized histamine for pyrogen adsorption 262(1983)193
Mirashi, S.V., Kurhekar, M.P., D'Souza, F.C. and Meghal, S.K.
Rapid method for the detection of oxygen analogues of fenthion, disulphoton and phorate on thin-layer plates 268(1983)352
Miribel, L., Brazier, J.L., Comet, F. and Lecompte, D.
GLC determination of chlorhexidine in pharmaceutical formulations 268(1983)321
Miyai, K., see Yamaguchi, Y. 273(1983)87
Miyakawa, A., see Karasawa, A. 260(1983)513
Miyao, Y., Suzuki, A., Noda, K. and Noguchi, H.
A sensitive assay method for pimozide in human plasma by HPLC with fluorescence detection 275(1983)443
Miyazaki, H., Matsunaga, Y., Yoshida, K., Arakawa, S. and Hashimoto, M.
Simultaneous determination of plasma and urinary uric acid, xanthine, hypoxanthine, allopurinol, oxipurinol, orotic acid, orotidine and creatinine by HPLC 274(1983)75
Miyazaki, H., see Someno, T. 253(1982)81
Miyazaki, T., see Kai, M. 268(1983)417
Mizokami, K., see Inoue, K. 274(1983)201
Mizuno, N., Shimizu, C., Morita, E., Shinkuma, D. and Yamanaka, Y.
Determination of isosorbide nitrates by HPLC and their stability in aqueous solution 264(1983)159
Mizutani, T.
Adsorption chromatography of ribonucleic acids on controlled-pore glass 262(1983)441
Moccia, D., see Kovar, J. 264(1983)297
Mockridge, P.B., see Toren, E.C. Jr. 266(1983)207
Moffat, A.C., see Fell, A.F. 273(1983)3
Moffat, A.C., see Gill, R. 255(1983)483
Moing, J.P. le, see Le Moing, J.P. 274(1983)139
Mokeyeva, R.N., Tsarfin, Y.A. and Ernst, W.
Determination of volatile microimpurities in alkaline polymerizates and neutral propylene oxide polyethers by GC headspace analysis 264(1983)272
Møller Jensen, K.
Determination of noscapine in serum by HPLC 274(1983)381
Mollerup Andersen, J. and Batsberg Pedersen, W.
Analysis of plant phenolics by HPLC 259(1983)131
Monseur, X. and Motte, J.C.
Quantitative HPLC analysis of the bitter quassinoid compounds from *Simaruba glauca* seeds 264(1983)469
Montay, G., Blain, Y., Roquet, F. and Le Hir, A.
HPLC of pefloxacin and its main active metabolites in biological fluids 272(1983)359
Moodie, I.M., Walsh, D.L. and Burger, J.A.
GLC of amino acids. A routine determination of cystine/cysteine in fish meal 261(1983)146
Moody, R.T., see Banes, A.J. 272(1983)366
Moolenaar, F., see Visser, J. 274(1983)372
Moon, T.W., see Hung, S.S.O. 269(1983)114
Moore, B.L., Noertker, L.J. and Hensley, C.A.
Determination of sodium linear dodecyl benzene sulfonate and sodium cumene sulfonate in mixtures by LC 265(1983)121
Mopper, K. and Johnson, L.
Reversed-phase LC analysis of Dns-sugars. Optimization of derivatization and chromatographic procedures and applications to natural samples 256(1983)27
Mopper, K., Stahovec, W.L. and Johnson, L.
Trace analysis of aldehydes by reversed-phase HPLC and precolumn fluorigenic labeling with 5,5-dimethyl-1,3-cyclohexanedione 256(1983)243
Moreau, M.F., see Michelot, J. 257(1983)395
Moreno, M.R. de, see De Moreno, M.R. 274(1983)376
Moreno-Lopez, J., see Kårsnäs, P. 266(1983)643
Morgan, D.K. and Danielson, N.D.
Enzymatic determination of phosphate in conjunction with HPLC 262(1983)265
Morgan, E.D., see Attygalle, A.B. 260(1983)411
Morgan, L.R. Jr., see Holdiness, M.R. 275(1983)432
Morgan, S.L., see Fox, A. 256(1983)429
Mori, S., see Takeuchi, T. 257(1983)327
Moriarty, K.J., see Mazzo, D.J. 270(1983)191
Moriggi, M., see Politi, L. 267(1983)403
Moriguchi, S., see Naito, K. 253(1982)205, 268(1983)359
Morimoto, S., see Funae, Y. 264(1983)249
Morita, E., see Mizuno, N. 264(1983)159
Moro, E., Bellotti, V., Jannuzzo, M.G., Stegnjaich, S. and Valzelli, G.
HPLC method for pharmacokinetic studies on the new anthracycline 4-demethoxydaunorubicin and its 13-dihydro derivative 274(1983)281
Moschidis, M.C.
Silicic acid CC of phosphonolipds. I. Separation of phosphonosphingomyelin from cardiolipin and other phospholipids 259(1983)356
Moschidis, M.C.
Silicic acid column chromatography of phosphonolipids. III. Separation of 1-O-alkyl-2-acetyl-*sn*-glyceryl-3-phosphonocholine from *trans*-D-*erythro*-ceramide-N,N,N-trimethylaminoethyl phosphonate 261(1983)181

Moschidis, M.C.
Silicic acid column chromatography of phosphonolipids. IV. Separation of phosphonolecithin and phosphonocephalin from their phosphoryl analogues and other related phospholipids 268(1983)296
Moschidis, M.C.
Isolation of goat spleen phosphonolipids by TLC: their identification and silicic acid CC separation 268(1983)485
Moschidis, M.C.
Silicic acid CC of phosphonolipids. V. Separation of phosphono-amide AGEPC, phosphono-amide AGEPE, monoether biphosphono-, diether phosphono-glycerides and diacetyl phosphono-glycerides from their phosphoryl analogues and other related lipids and phospholipids 270(1983)344
Moschidis, M.C. and Demopoulos, C.A.
Silicic acid CC of phosphonolipids. II. Separation of 1-O-alkyl-2-acetyl-*sn*-glyceryl-3-phosphono choline from 1-O-alkyl-2-acetyl-*sn*-glyceryl-3-phosphoryl choline, cardiolipin and other related phospholipids 259(1983)504
Moschidis, M.C., see Demopoulos, C.A. 256(1983)378
Motohashi, M., Torii, H., Doi, T. and Tanayama, S.
Simple and rapid ion-pair HPLC assay for *p*-nitrophenyl glucuronide in rat-liver microsomal incubations 253(1982)129
Motooka, I., Nariai, H., Nakazaki, K. and Tsuhako, M.
Determination of average chain length of linear polyphosphates by isotachophoresis 260(1983)377
Motte, J.C., see Monseur, X. 264(1983)469
Moulds, R.F.W., see Kacprowicz, A.T. 272(1983)417
Mount, D.L., see Churchill, F.C. II 274(1983)111
Mousa, S. and Couri, D.
Analysis of enkephalins, β-endorphins and small peptides in their sequences by highly sensitive HPLC with electrochemical detection: implications in opioid peptide metabolism 267(1983)191
Much, H., see Facklam, C. 257(1983)118
Muchmore, H.G., see Parkinson, A.J. 254(1983)219
Muglia, M., see Caccia, S. 252(1982)310
Muh, J.P., see Jouve, J. 274(1983)53
Mulder-Krieger, T., see Verpoorte, R. 261(1983)172
Müller, D., see Bayer, E. 264(1983)197
Muller, F., see Vallette, F.M. 257(1983)285
Müller, U., Dietrich, P. and Prescher, D.
GC studies of perfluorocarbon compounds. II. GC separation of mixtures of long-chain perfluoroalkanes and -alkenes (in German) 259(1983)243
Munro, Z., see Burger, B.V. 262(1983)95
Murayama, K., Sugawara, T., Hiraga, E. and Ogawa, H.
Quantitation of the ε-(γ-glutamyl)lysine cross-link using a high-speed amino acid analyzer without purification of the dipeptide. Application to enzymatic digested mixtures of keratin and the membranous fraction of human stratum corneum 274(1983)63
Murotsu, T., see Kato, Y. 265(1983)342, 266(1983)341
Murphy, R.C., see Metz, S.A. 275(1983)468
Murray, T., see Mayhew, J.W. 274(1983)271
Musha, S., see Abe, I. 258(1983)35
Mussche, P., see Verzele, M. 254(1983)117
Myasoedov, N.F., see Zolotarev, Y.A. 264(1983)377
Myers, M.N., see Giddings, J.C. 255(1983)359
Myher, J.J., see Kuksis, A. 273(1983)43

N

Nagai, F., see Une, M. 257(1983)411
Nagase, M., see Ôi, N. 259(1983)487, 265(1983)111
Nagase,M., see Ôi, N. 257(1983)111
Nagashima, Y., see Onoue, Y. 257(1983)373
Nagatsu, T., see Boonyarat, D. 274(1983)331
Nagatsu, T., see Kobayashi, K. 274(1983)313
Nagy, M.Sz., see Borda, J. 258(1983)271
Naider, F., see Shenbagamurthi, P. 256(1983)117
Naito, K., Endo, M., Moriguchi, S. and Takei, S.
Characterization of modified alumina as an adsorbent for GSC. Salt loading dependence of retention volume on modified alumina adsorbent coated with potassium carbonate 253(1982)205
Naito, K., Kurita, R., Endo, M., Moriguchi, S. and Takei, S.
Characterization of modified alumina as an adsorbent for GSC. Modification with dipotassium hydrogen phosphate 268(1983)359
Nakae, A., see Kawase, J. 252(1982)209
Nakagawa, A., Sakuma, Y., Okamoto, M. and Maeda, M.
Factors affecting single-stage separation coefficients and profile of the chromatogram in uranium isotope enrichment by cation-exchange chromatography using uranyl-carboxylate complexes 256(1983)231
Nakagawa, G., see Tsuda, T. 264(1983)385, 268(1983)369
Nakagawa, H., Tsuge, S., Itho, T. and Kimoto, M.
Characterization of hydrocarbon waxes by

GLC with a high-resolution glass capillary column 260(1983)391
Nakagawa, T., Shibukawa, A. and Uno, T.
LC with crown ether-containing mobile phases. III. Retention of catecholamines and related compounds in reversed-phase HPLC 254(1983)27
Nakamura, G.R., Stall, W.J., Folen, V.A. and Masters, R.G.
TLC-MS identification of 11-nor-Δ^9-tetrahydrocannabinol-9-carboxylic acid 264(1983)336
Nakamura, H., see Himuro, A. 264(1983)423
Nakamura, K., see Kato, Y. 253(1982)219, 256(1983)143, 266(1983)385
Nakanishi, Y., see Nobuhara, Y. 258(1983)276
Nakanishi, Y., see Takagi, S. 258(1983)262
Nakano, T., see Kobayashi, K. 274(1983)313
Nakatsuji, T., Wilson, J.B., Lam, H. and Huisman, T.H.J.
Identification and quantitation of Hb Olympia [β20(B2)Val → Met] and Hb San Diego [β109(G11)Val → Met] by HPLC 259(1983)511
Nakazaki, K., see Motooka, I. 260(1983)377
Nakazawa, H., see Friedman, R.D. 252(1982)283
Namekawa, H., see Ito, T. 274(1983)341
Nardillo, A.M., see Castells, R.C. 259(1983)413
Nariai, H., see Motooka, I. 260(1983)377
Naruse, H., see Hayashi, T. 273(1983)245, 274(1983)318
Nat, J.M. van der, see Van der Nat, J.M. 259(1983)522
Naylor, P.H., see Low, T.L.K. 266(1983)533
Nebinger, P., Koel, M., Franz, A. and Werries, E.
HPLC analysis of even- and odd-numbered hyaluronate oligosaccharides 265(1983)19
Neill, E.A.M. and Jones, C.R.
Determination of atracurium besylate in human plasma 274(1983)409
Nelis, H.J.C.F., see Van Lancker, M.A. 254(1983)45
Netting, A.G. and Duffield, A.M.
Pentafluorobenzyl esters as derivatives for the semi-preparative HPLC of fatty acids 257(1983)174
Neumeyer, J.L., see Gelber, L.R. 257(1983)317
Neumeyer, J.L., see Maksoud, H.M. 274(1983)149
Newbery, J.E. and Lopez de Haddad, M.P.
Terpenoid analysis. II. The separation of some monoterpene alcohols by HPLC with electrochemical detection 260(1983)173
Ng, D.L.K., see Dutt, M.C. 267(1983)117
Ng, L.L.
Sample preparation by salts precipitation and quantitation by HPLC with UV detection of selected drugs in biological fluids 257(1983)345
Nguyen Phuoc, B.K., see Robert, J.C. 273(1983)275
Nibbering, N.M.M.
Survey of ionization methods with emphasis on LC-MS 251(1982)93
Nice, E.C., see Cooke, N.H.C. 255(1983)115
Nichol, C.A., see Woolf, J.H. 274(1983)398
Nicholson, G.J., see Frank, H. 270(1983)159
Nicholson, G.J., see Koppenhoefer, B. 260(1983)63
Nickell, G.L., see Kapila, S. 259(1983)205
Nicoletti, R., see Politi, L. 267(1983)403
Nieder, M., see Bayer, E. 264(1983)197
Niemann, G.J., see Van Genderen, H.H. 256(1983)151
Nijima, K., see Someno, T. 253(1982)81
Niklasson, F.A., see Johansson, I.M. 275(1983)51
Nikolov, Z.L. and Reilly, P.J.
Isothermal capillary column GC of trimethylsilyl disaccharides 254(1983)157
Nishi, A., see Karasawa, A. 260(1983)513
Nishino, M., see Hirokawa, T. 252(1982)49, 271(1983)D1
Nitsche, V. and Mascher, H.
New rapid assay of cimetidine in human plasma by reversed-phase HPLC 273(1983)449
Niu-Fan, G., see Biondi, P.A. 273(1983)393
Niwa, H., Ishiwata, H. and Yamada, K.
Separation and determination of macrocyclic pyrrolizidine alkaloids of the otonecine type present in the edible plant *Petasites japonicus* by reversed-phase HPLC 257(1983)146
Niwa, T., Yamamoto. N., Asada, H., Kawanishi, A., Yokoyama, M., Maeda, K. and Ohki, T.
Ischemic change of organic acids in kidney 272(1983)227
Niwaguchi, T., see Suzuki, S. 267(1983)381
Nobuhara, Y., Hirano, S. and Nakanishi, Y.
Enantiomeric resolution of 1-[2-(3-hydroxyphenyl)-1-phenylethyl]-4-(3-methyl-2-butenyl)piperazine by reversed-phase HPLC using a chiral mobile phase 258(1983)276
Nobuhara, Y., see Takagi, S. 258(1983)262
Noda, K., see Miyao, Y. 275(1983)443
Noertker, L.J., see Moore, B.L. 265(1983)121
Noguchi, H., see Miyao, Y. 275(1983)443
Noguchi, T., see Minatogawa, Y. 274(1983)413
Noguchi, T., see Onoue, Y. 257(1983)373
Noguchi, T.T., see Liu, Y. 268(1983)329
Nogués, M.V., Guasch, A., Alonso, J. and Cuchillo, C.M.
Affinity chromatography study of the interaction of ribonucleotides with bovine pancreatic ribonuclease covalently bound to Sepharose 4B 268(1983)255
Noirfalise, A. and Collinge, A.
Quantitative determination of oxcarbazepine 274(1983)417
Noirfalise, A., see Collinge, A. 257(1983)416
Noma, M., see Koshioka, M. 256(1983)101
Nomura, K., see Tsuda, T. 264(1983)385
Nomura, M., see Kogure, K. 259(1983)480
Nondek, L. and Chvalovský, V.
On-line preconcentration and HPLC

determination of *o*-toluenesulphonamide in saccharin 268(1983)395
Noonan, I.A., Gambertoglio, J.G., Barriere, S.L., Conte, J.E. Jr. and Lin, E.T.
HPLC determination of cefmenoxime (AB-50912) in human plasma and urine 273(1983)458
Noordhoek, J., see Bots, A.M.B. 272(1983)421
Nordholm, L., see Dalgaard, L. 265(1983)183
Nota, G., Improta, C., Papale, U. and Ferretti, C.
Determination of cyanide, as cyanohydrin, in water by GC 262(1983)360
Novák, J., see Roth, M. 258(1983)23, 262(1983)305
Novák, J., see Vejrosta, J. 265(1983)215
Novotný, M., see McGuffin, V.L. 255(1983)381
Novotný, M.V., see Caudill, W.L. 261(1983)415
Novotný, M.V., see Springston, S.R. 267(1983)395
Noyes, C.M.
Optimization of complex separations in HPLC. Application to phenylthiohydantoin amino acids 266(1983)451
Nunn, A.D.
Structure-distribution relationships of radiopharmaceuticals. Correlation between the reversed-phase capacity factors for Tc-99m phenylcarbamoylmethyliminodiacetic acids and their renal elimination 255(1983)91
Nyiredy, S., see Budahegyi, M.V. 271(1983)213

O

Oaks, A., see Winspear, M.J. 270(1983)378
Ober, R.E., see Chang, S.F. 272(1983)341
Obita, J.A., see Burford, R.P. 268(1983)515
Ochs, H.R., see Greenblatt, D.J. 275(1983)450
Oddie, C.J., Jackman, G.P. and Bobik, A.
Analysis of bopindolol and its active metabolite 18-502 in human plasma by HPLC 273(1983)469
Oehlenschläger, J., see Fricke, H.S.G. 252(1982)331
Oehme, G., see Facklam, C. 257(1983)118
Offem, J.O. and Dart, R.K.
Rapid determination of spoilage fungi 260(1983)109
Offord, R.E., see Rose, K. 268(1983)197
Ofuji, T., see Kawahara, K. 272(1983)187
Ogan, K., see Katz, E. 260(1983)277
Ogan, K.L., see Katz, E.D. 270(1983)51
Ogawa, H., see Murayama, K. 274(1983)63
Ogierman, L., Palka, A., Czech, B. and Ratajczak, A.
TLC of hetera[n](1,1')ferroceno- and ruthenocenophanes 268(1983)144
Ogihara, Y., see Shimizu, K. 268(1983)85, 272(1983)170
Ogiyama, K., see Koshioka, M. 256(1983)101
O'Grady, B.V., see Richardson, D.E. 268(1983)341
Oh, K.K., see Himmel, M.E. 267(1983)249
O'Hara, M.J., see Cooke, N.H.C. 255(1983)115
Ohki, T., see Niwa, T. 272(1983)227
Ohkura, Y., see Kai, M. 268(1983)417
Ohshima, Y. and Takahashi, K.
Separation method for sennosides 258(1983)292
Ohta, H. and Osajima, Y.
Glass capillary GC analysis of oil components extracted from Yuzu (*Citrus junos*) juice 268(1983)336
Ohya, K., see Takasu, A. 272(1983)243
Ôi, N. and Kitahara, H.
HPLC separation of chiral alcohols on chiral stationary phases 265(1983)117
Ôi, N., Kitahara, H. and Doi, T.
GC separation of chrysanthemic acid ester enantiomers on a novel chiral stationary phase 254(1983)282
Ôi, N., Nagase, M., Inda, Y. and Doi, T.
HPLC separation of enantiomers on (1*R*,3*R*)-*trans*-chrysanthemic acid and its amide derivatives bonded to silica gel 259(1983)487
Ôi, N., Nagase, M., Inda, Y. and Doi, T.
HPLC of enantiomers on (*S*)-2-(4-chlorophenyl)isovaleric acid and its amide derivatives bonded to silica gel 265(1983)111
Ôi, N., Nagase,M. and Doi, T.
HPLC separation of enantiomers on (*S*)-1-(*α*-naphthyl)ethylamine bonded to silica gel 257(1983)111
Ôi, N., Takai, R. and Kitahara, H.
GC separation of enantiomers of 0-acyl alcohols 256(1983)154
Oi, T., Kakihana, H., Okamoto, M. and Maeda, M.
Numerical analysis of chromatographic band development of one-component systems 270(1983)7
Oka, H., Uno, K., Harada, K.-I., Kaneyama, Y. and Suzuki, M.
Improvement of the chemical analysis of antibiotics. I. Simple method for the analysis of tetracyclines on silica gel HPTLC plates 260(1983)457
Okabe, M., Kiyoshima, K., Kojima, I., Okamoto, R., Fukagawa, Y. and Ishikura, T.
TLC analysis of carbapenem antibiotics in fermentation broths 256(1983)447
Okada, E., see Hayakawa, K. 256(1983)172
Okada, E., see Kawamoto, T. 258(1983)284, 267(1983)414
Okada, Y., see Koizumi, K. 265(1983)89
Okamoto, M., see Kobayashi, N. 252(1982)121
Okamoto, M., see Kogure, K. 259(1983)480
Okamoto, M., see Nakagawa, A. 256(1983)231
Okamoto, M., see Oi, T. 270(1983)7
Okamoto, R., see Okabe, M. 256(1983)447

Okamoto, Y., Tsuchiya, Y., Shinohara, R. and Takeshita, R.
Separation of azaarenes by polyamide TLC and the relationship between their basicity and R_F values 254(1983)35
Okamoto, Y., see Shinohara, R. 256(1983)81
Okerholm, R.A., see Chan, K.Y. 272(1983)396, 274(1983)121
Okonkwo, P.O., Reimann, I.W., Woestenborghs, R. and Klotz, U.
HPLC assay with fluorometric detection of ketanserin, a new antihypertensive agent and serotonin S_2 antagonist in human plasma, blood and urine 272(1983)411
Okuyama, T., see Manabe, T. 264(1983)435
Olieman, C., see Brons, C. 259(1983)79
Oliver, R.W.A., see Ager, R.P. 271(1983)325
Oliver, R.W.A., see Basey, A. 251(1982)265
Oliw, E.H.
Analysis of 1,2-diols of linoleic, α-linolenic and arachidonic acid by GC-MS using cyclic alkyl boronic esters 275(1983)245
Ollivier, R., see Abalain, J.H. 274(1983)305
Olsen, I., see Brondz, I. 274(1983)299
Olsen, O., see Clausen, S. 260(1983)193
Omori, Y., see Inoue, K. 274(1983)201
Onodera, S., Iino, N., Matsuda, M. and Ishikura, S.
Chemical changes of organic compounds in chlorinated water. VI. GC and MS studies of the reactions of phenylphenols with hypochlorite in dilute aqueous solution 265(1983)201
Onoue, Y., Noguchi, T., Nagashima, Y., Hashimoto, K., Kanoh, S., Ito, M. and Tsukada, K.
Separation of tetrodotoxin and paralytic shellfish poisons by HPLC with a fluorometric detection using *o*-phthalaldehyde 257(1983)373
Oort, W.J. van, see Van Oort, W.J. 272(1983)421
Oosterbaan, M.J.M., see Winogard, B. 275(1983)145
Openshaw, J.D., see Haken, J.K. 267(1983)1
Oray, B., Lu, H.S. and Gracy, R.W.
HPLC separation of Dns-amino acid derivatives and applications to peptide and protein structural studies 270(1983)253
Oray, B., Yüksel, K.Ü. and Gracy, R.W.
Separation of deamidated forms of triosephosphate isomerase by chromatofocusing. A comparison of chromatofocusing with column isoelectric focusing 265(1983)126
Orazio, C.E., Kapila, S. and Manahan, S.E.
HPLC determination of phenols as phenolates in a complex mixture 262(1983)434
Orden, D.E. van, see Van Orden, D.E. 256(1983)335
Orlando, T., see Gaffney, J.S. 262(1983)321
Ortel, T.L., Takahashi, N. and Putnam, F.W.
Separation of limited tryptic fragments of human ceruloplasmin by gel-permeation HPLC 266(1983)257
Osajima, Y., see Ohta, H. 268(1983)336
Osaki, S., Osaki, T., Setoyama, M. and Takashima, Y.
Gel chromatographic behaviour of trace amounts of chromium(IV) and hydrolysed chromium(III) in aqueous solution 257(1983)180
Osaki, T., see Osaki, S. 257(1983)180
Osborne, V.L. and Randolph, W.C.
Analysis of SK&F 82526 in plasma by HPLC with electrochemical detection 255(1983)491
O'Shannessy, D.J., see Renwick, A.G.C. 256(1983)375
Oshima, R. and Kumanotani, J.
Determination of neutral, amino and N-acetyl amino sugars as alditol benzoates by LSC 265(1983)335
Oshima, R., Kumanotani, J. and Watanabe, C.
GLC resolution of sugar enantiomers as diastereoisomeric methylbenzylaminoalditols 259(1983)159
Oshima, Y., see Takahashi, K. 268(1983)522
Osman, M.A. and Hill, H.H. Jr.
Phosphorus response in a hydrogen-atmosphere flame ionization detector for GC 264(1983)149
Ossicini, L., see Fanali, S. 265(1983)131
Otlewski, J., see Wilimowska-Pelc, A. 269(1983)22
Ottenheijm, H.C.J., see Winogard, B. 275(1983)145
Otto, M. and Wegscheider, W.
Multifactor model for the optimization of selectivity in reversed-phase chromatography 258(1983)11
Ötvös, L., see Fitos, I. 259(1983)494
Ou, C.-N., Buffone, G.J., Reimer, G.L. and Alpert, A.J.
HPLC of human hemoglobins on a new cation exchanger 266(1983)197
Overzet, F., Rurak, A., Van der Voet, H., Drenth, B.F.H., Ghijsen, R.T. and De Zeeuw, R.A.
On-line diode array UV-visible spectrometry in screening for drugs and drug metabolites by HPLC 267(1983)329
Owen-Fett, C., see Clancey, C.J. 256(1983)335
Oxford, J., see Martin, L.E. 251(1982)215
Ozaki, Y., see Iriyama, K. 254(1983)285
Öztekin, A., see Hutin, M. 265(1983)139

P

Pacáková, V., see Štulík, K. 262(1983)85, 273(1983)77
Pacholec, F., see Butler, H.T. 261(1983)55

Paciotti, M., Perinati, L., Gori, F. and Rampazzo, P.
HPLC determination of bile acids involved in the synthesis of ursodeoxycholic acid 270(1983)402
Padovani, P., see Ganansia, J. 275(1983)183
Pagenkopf, G.K., see Jenke, D.R. 269(1983)202
Paglialunga, S., see Tortoreto, M. 262(1983)367
Pahuja, S.L. and Reid, T.W.
TLC determination of L-asparaginase in the presence of human serum 273(1983)431
Paik, W.K., Farooqui, J.Z., Roy, T. and Kim, S.
Determination of p*I* values of variously methylated amino acids by isoelectric focusing 256(1983)331
Paik, W.K., see Chung, B.-G. 264(1983)321
Palace, G., see Edelson, J. 274(1983)428
Paladino, R., see De Pascale, A. 256(1983)352
Palka, A., see Ogierman, L. 268(1983)144
Palmer, M.V., see Sjut, V. 270(1983)309
Palmisano, F., see Visconti, A. 252(1982)305
Pan, S.-S., see Andrews, P.A. 262(1983)231
Pandit, M.W., see Ramakrishna Murti, T. 260(1983)216
Panijpan, B., Kimura, M. and Itokawa, Y.
Separation and determination of thiamine, pyrithiamine, pyridine, 2-methyl-4-amino-5-hydroxymethylpyrimidine and 4-methyl-5-(β-hydroxyethyl)thiazole by reversed-phase HPLC 258(1983)307
Pannuti, F., see Camaggi, C.M. 275(1983)436
Panse, D.G., Likhite, S.M., Bapat, B.V. and Ghatge, B.B.
Liquid crystals. IV. Study of the supercooling effect on laterally substituted liquid crystalline compounds 264(1983)279
Pantarotto, C., see Tortoreto, M. 262(1983)367
Panteleev, N.P., see Andreev, L.V. 259(1983)508
Papale, U., see Nota, G. 262(1983)360
Pape, B.E., see Cary, P.L. 275(1983)107
Papp, E. and Vigh, G.
Role of buffer cations in the reversed-phase HPLC of aromatic amines. I. Methanol-rich eluents 259(1983)49
Papp, O., Valkó, K., Szász, G., Hermecz, I., Vámos, J., Hankó, K. and Ignáth-Halász, Z.
Determination of partition coefficients of pyrido[1,2-*a*]pyrimidin-4-one derivatives by traditional shake, TLC and GLC methods 252(1982)67
Papp, O., see Szász, G. 269(1983)91
Parcher, J.F.
Tracer pulse chromatography: a review and prospectus (Review) 251(1982)281
Pardoe, I.U., see Burness, A.T.H. 259(1983)423
Park, G., see Edelson, J. 274(1983)428
Park, G.B., Koss, R.F., Utter, J. and Edelson, J.
Determination of colterol in human plasma and urine by reversed-phase chromatography with amperometric detection 273(1983)481
Parkinson, A.J., Scott, E.N. and Muchmore, H.G.
Rapid preparation and purification of alkaline phosphatase and ^{125}I-labeled antibody by minicolumn gel centrifugation chromatography 254(1983)219
Parks, E.J., Johannesen, R.B. and Brinckman, F.E.
Characterization of organometallic copolymers and copolymerization by size-exclusion chromatography coupled with trace metal- and mass-sensitive detectors 255(1983)439
Parman, A.Ú.
Comparison of carboxymethyl-cellulose cation-exchange chromatography and HPLC in the purification of guinea-pig insulin from pancreatic extracts 256(1983)293
Parman, A.Ú. and Rideout, J.M.
Purification of porcine proinsulin by HPLC 256(1983)283
Parodi, A.J., see Lederkremer, G.Z. 262(1983)299
Parrish, C.C. and Ackman, R.G.
Chromarod separations for the analysis of marine lipid classes by Iatroscan TLC-flame ionization detection 262(1983)103
Parrott, K.A.
Determination of propranolol in peritoneal dialysis fluid by HPLC without extraction 274(1983)171
Parsons, M.L., see Hawley-Fedder, R.A. 269(1983)161
Partis, M.D., Griffiths, D.G., Williams, A., Linnett, P. and Beechey, R.B.
HPLC of some biologically active carbodiimides 259(1983)189
Pascale, A. de, see De Pascale, A. 256(1983)352
Pastorelli, L., see Chiàvari, G. 262(1983)175
Pastorello, L., see De Pascale, A. 256(1983)352
Paterson, M., see Johnson, E.A. 264(1983)291
Patsalides, E., see Dilli, S. 270(1983)354
Patthy, M.
Trace analysis of sulfaquinoxaline in animal tissues by HPLC 275(1983)115
Pauls, R.E. and Weight, G.J.
LC determination of acetic acid trapped in charcoal tubes 254(1983)171
Pauls, R.E., see Lewis, J.J. 264(1983)339
Pays, M., see Spreux-Varoquaux, O. 274(1983)187
Peaden, P.A. and Lee, M.L.
Theoretical treatment of resolving power in open tubular column supercritical fluid chromatography 259(1983)1
Pearson, J.D. and Regnier, F.E.
High-performance anion-exchange chromatography of oligonucleotides 255(1983)137
Pekić, B., Petrocić, S.M. and Slavica, B.
HPLC of some digitalis glycosides and their aglycones on chemically bonded phases 268(1983)237
Pélaprat, D., see Seidah, N.G. 266(1983)213
Pelizzi, C., see Boselli, T. 265(1983)347

Pellegatta, G., Carugati, G.P. and Coppi, G.
HPLC analysis of erythromycins A and B from fermentation broths 269(1983)33
Peltonen, J., see Jalkanen, M. 268(1983)79
Pelzbauer, Z., see Hradil, J. 259(1983)269
Pempkowiak, J.
C_{18} reversed-phase trace enrichment of short- and long-chain (C_2-C_8-C_{20}) fatty acids from dilute aqueous solutions and sea water 258(1983)93
Peña Heras, A. and Sánchez-Rasero, F.
Determination of carbamic herbicides by HPLC. III. Triallate 261(1983)166
Peng, Y.-M., Beaudry, J., Alberts, D.S. and Davis, T.P.
HPLC of the provitamin A β-carotene in plasma 273(1983)410
Perelroyzen, M.P., see Baram, G.I. 264(1983)69
Perez, R.L.
GC determination of raspberry ketone and malathion in insect bait concentrates 259(1983)176
Perez, R.l.
Determination of 2-methoxy-3,6-dichlorobenzoic acid, 2,4-dichlorophenoxyacetic acid and 2-methyl-4-chlorophenoxyacetic acid in emulsifiable pesticide concentrates by HPLC 259(1983)181
Perez, R.L. and Barasoain, F.F.
HPLC determination of cyhexatin in technical and wettable pesticide powders 260(1983)200
Perinati, L., see Paciotti, M. 270(1983)402
Perry, R., see Clark, A.I. 252(1982)147
Persson, B.-A., see Lagerström, P.-O. 273(1983)151
Perugini, M., see Rappuoli, R. 268(1983)543
Petrikovics, I., see Kiss, L. 262(1983)379
Petrović, S.M., see Pekić, B. 268(1983)237
Petters, I., see Villén, T. 258(1983)267
Pettersson, A., see Kågedal, B. 272(1983)287
Pfäffli, P., see Vainiotalo, S. 258(1983)207
Pfeiffer, C.D., see Larson, J.R. 259(1983)519
Pfleger, K., see Maurer, H. 272(1983)75
Pharis, R.P., see Koshioka, M. 256(1983)101
Phelan, M.A. and Cohen, K.A.
Gradient optimization principles in reversed-phase HPLC and the separation of influenza virus components 266(1983)55
Phelps, J.B., see Friley, B.K. 258(1983)310
Philips, S.R. and Robson, A.M.
Sensitive and specific radioenzymatic assay for norepinephrine, epinephrine and dopamine based on the TLC separation of their Dns-O-methyl derivatives 254(1983)257
Phillipson, J.D., see Keene, A.T. 260(1983)123
Phipps, J.A., Sabourin, M.A., Buckingham, W. and Strunin, L.
Detection of picogram concentrations of fentanyl in plasma by GLC 272(1983)392
Phuoc, B.K. Nguyen, see Nguyen Phuoc, B.K. 273(1983)275
Picart, D., see Abalain, J.H. 274(1983)305
Pietta, P. and Calatroni, A.
HPLC assay for zomepirac and its main metabolite in urine 275(1983)217
Pietta, P. and Zio, C.
Isolation of jamaicin and lisetin and their determination in *Piscidia erythrina* L. by HPLC 260(1983)497
Pillai, G.K., see McErlane, K.M. 274(1983)129
Pingoud, A., see Haupt, W. 260(1983)419
Pingoud, V. and Trautschold, I.
Analysis of iodine-labelled glucagon derivatives by HPLC 260(1983)439
Piotrovskii, V.K., Rumiantsev, D.O. and Metelitsa, V.I.
Ion-exchange HPLC in drug assay in biological fluids. II. Verapamil 275(1983)195
Piovetti, L., see Serve, L. 259(1983)319
Pirisi, F.M., see Cabras, P. 256(1983)176
Pirisi, R., see Cabras, P. 256(1983)176
Pitzer, E.W., see Hayes, P.C. Jr. 253(1982)179
Plaček, K., see Královský, J. 265(1983)368
Plomp, T.A., Engels, M., Robles de Medina, E.O. and Maes, R.A.A.
Simultaneous determination of amiodarone and its major metabolite desethylamiodarone in plasma, urine and tissues by HPLC 273(1983)379
Ploschke, H.-J., see Gau, W. 262(1983)277
Plotczyk, L.L. and Larson, P.
Advances in fused-silica column technology for the analysis of underivatized drugs 257(1983)211
Plšková, M., see Šoltés, L. 273(1983)213
Podojil, M., see Beran, M. 268(1983)315
Podojil, M., see Řezanka, T. 268(1983)71
Podolák, M., see Štulík, K. 262(1983)85
Pognat, J.-F., see Vink, J. 272(1983)87
Pola, W., see Sistovaris, N. 274(1983)289
Politi, L., Moriggi, M., Nicoletti, R. and Scandurra, R.
Adsorption chromatography on Bio-Gel P-2 267(1983)403
Pommier, C., see Bocquet, J.F. 261(1983)11
Poole, C.F., see Butler, H.T. 261(1983)55
Poole, C.F., see Cheng, M.-L. 257(1983)140
Poole, C.F., see Dhanesar, S.C. 252(1982)91, 253(1982)255, 267(1983)293, 267(1983)388
Popović, D.A. and Wintzerith, M.
Hydrophobic interaction of ribosomal ribonucleic acids on a nitrocellulose column 268(1983)285
Poppe, H. and Kraak, J.C.
Mass loadability of chromatographic columns 255(1983)395
Porsch, B.
HPLC of sugar mixtures containing xylose and arabinose on primary amino-bonded phases 253(1982)49
Pötter, H., Hülm, M. and Richter, K.
HPLC determination of glibenclamide in human plasma (in German) 273(1983)217
Potter W.P. de, see De Potter, W.P. 275(1983)11
Pound, S.M., see Renwick, A.G.C. 256(1983)375

Powell, S.C. and Shihabi, Z.K.
Packing columns with flexible walls for HPLC 270(1983)332
Power, S.D., Lochrie, M.A. and Poyton, R.O.
Reversed-phase HPLC purification of subunits of oligomeric membrane proteins. The nuclear coded subunits of yeast cytochrome *c* oxidase 266(1983)585
Poyton, R.O., see Power, S.D. 266(1983)585
Pracejus, H., see Facklam, C. 257(1983)118
Predieri, G., see Boselli, T. 265(1983)347
Premuzic, E.T., see Gaffney, J.S. 262(1983)321
Prentice, D.A., see Gurley, L.R. 266(1983)609
Prescher, D., see Müller, U. 259(1983)243
Prescott, B.E., see Anthony, L.J. 264(1983)405
Preston, M.R.
Determination of adenine, adenosine and related nucleotides at the low picomole level by reversed-phase HPLC with fluorescence detection 275(1983)178
Price, G.J., see Ashworth, A.J. 262(1983)33
Priddis, C.R.
Capillary GC of lupin alkaloids 261(1983)95
Přikrylová, V., see Jizba, J.V. 257(1983)185
Pritchard, E., see Burchill, P. 265(1983)223
Pritchett, E.L.C., see Verghese, C. 272(1983)149
Profili, M., see Amato, A. 270(1983)387
Profili, M., see Cavazzutti, G. 268(1983)528
Prognon, P., Simon, G. and Mahuzier, G.
Determination of 5-methoxypsoralene in plasma by LC and spectrofluorimetric detection (in French) 272(1983)193
Prusík, Z., see Kašička, V. 273(1983)117
Przyjazny, A., Janicki, W., Chrzanowski, W. and Staszewski, R.
Modification of the determination of organic compounds by headspace GC after sorption on solid sorbents and liquid desorption 262(1983)199
Pucci, P., Sannia, G. and Marino, G.
Separation of phenylthiohydantoin-amino acids by HPLC 270(1983)371
Puglisi, C.V., Ferrara, F.J. Jr. and De Silva, J.A.F.
Determination of a pyrimido-benzazepine anxiolytic agent and its 5-hydroxy metabolite in whole blood, plasma and urine by GLC with electron-capture detection and by HPLC 275(1983)319
Punčochářová, J., Vodička, L. and Kříž, J.
HPLC of alkylnaphthalenes on silica 267(1983)222
Putnam, F.W., see lozier, J. 266(1983)545
Putnam, F.W., see Ortel, T.L. 266(1983)257
Putnam, F.W., see Takahashi, N. 266(1983)511

Q

Qiu, Z.Y., see Rokushika, S. 260(1983)81
Qua, S.C., see Gill, R. 255(1983)483
Quadro, G., see Marzo, A. 272(1983)95
Quatrano, R.S., see Doubet, R.S. 264(1983)479
Qureshi, S.A., see Baxter, J.A. 261(1983)130

R

Raddats, M.A., see Burch, J.E. 274(1983)350
Radhakrishnamurthy, B., Jeansonne, N. and Berenson, G.S.
Continuous-flow analysis of proteoglycans during gel filtration using guanidine hydrochloride as an eluent 256(1983)341
Rădulescu, V., see Grou, E. 260(1983)502
Ragnarsson, U., see Fransson, B. 268(1983)347
Raha, C.R.
TLC separation and spectra of oxygenated benzo[*a*]pyrene derivatives in dichloromethane 264(1983)453
Raikov, Z., see Ivanov, I. 260(1983)177
Raikova, E., see Ivanov, I. 260(1983)177
Rajec, P., see Kaniansky, D. 258(1983)238
Ramakrishna Murti, T. and Pandit, M.W.
Rapid purification of a ribonuclease from bovine seminal plasma by DNA-affinity chromatography 260(1983)216
Ramos, D.L. and Schoffstall, A.M.
Reversed-phase HPLC separation of nucleosides and nucleotides 261(1983)83
Rampazzo, P., see Paciotti, M. 270(1983)402
Ramsteiner, K.A. and Böhm, K.H.
Automatic device for injection and multiple column switching in HPLC 260(1983)33
Randolph, W.C., see Osborne, V.L. 255(1983)491
Ranný, M., see Mareš, P. 275(1983)295
Rao, B.S., see Balakrishnan, I. 257(1983)392
Rappuoli, R., Perugini, M., Marsili, I. and Fabbiani, S.
Rapid purification of diphtheria toxin by Phenyl Sepharose and DEAE-cellulose chromatography 268(1983)543
Rasmussen, K.E., see Christiansen, A.L. 270(1983)293
Ratajczak, A., see Ogierman, L. 268(1983)144
Ratchik, E., see Schmeltz, I. 268(1983)31
Rathnawathie, M. and Buckle, K.A.
Determination of piperine in pepper (*Piper nigrum*) using HPLC 264(1983)316
Rattay, V., see Chovancová, J. 256(1983)465
Rausch, M.D., see Mazzo, D.J. 269(1983)11, 270(1983)191

Rauter, L., see Gleispach, H. 273(1983)161, 273(1983)166
Redmond, J.W., see Batley, M. 253(1982)124
Rees, G.J., see Conder, J.R. 258(1983)1
Regnier, F.E., see Kopaciewicz, W. 266(1983)3
Regnier, F.E., see Pearson, J.D. 255(1983)137
Regnier, F.E., see Tandy, N.E. 266(1983)599
Reid, A.D. and Baker, P.R.
Formation and separation by reversed-phase HPLC of fluorescent and UV-absorbing bile salt derivatives 260(1983)115
Reid, A.D. and Baker, P.R.
Relative capacity factors of some keto bile acids on a reversed-phase HPLC system 268(1983)281
Reid, T.W., see Pahuja, S.L. 273(1983)431
Reidl, U.
Determination of acetylsalicylic acid and metabolites in biological fluids by HPLC 272(1983)325
Reijenga, J.C., Aben, G.V.A., Verheggen, T.P.E.M. and Everaerts, F.M.
Effect of electroosmosis on detection in isotachophoresis 260(1983)241
Reijenga, J.C., Slaats, H.J.L.A. and Everaerts, F.M.
Determination of conjugated bile acids in human bile by isotachophoresis in a non-aqueous solvent using a.c. conductivity and UV detection 267(1983)85
Reijenga, J.C., Verheggen, T.P.E.M. and Everaerts, F.M.
Dual-wavelength UV-adsorption detection in capillary isotachophoresis 267(1983)75
Reijenga, J.C., see Verheggen, T.P.E.M. 260(1983)471
Reijnders, M.J., see Thijssen, H.H.W. 274(1983)231
Reilly, P.J., see Nikolov, Z.L. 254(1983)157
Reimann, I.W., see Okonkwo, P.O. 272(1983)411
Reimer, G.L., see Ou, C.-N. 266(1983)197
Reinbolt, J., Hounwanou, N., Boulanger, Y., Wittmann-Liebold, B. and Bosserhoff, A.
Reversed-phase LC of peptides for direct micro-sequencing 259(1983)121
Reiners, J., see Bayer, E. 264(1983)197
Renman, L., see Skarping, G. 267(1983)315, 270(1983)207
Renwick, A.G.C., Pound, S.M. and O'Shannessy, D.J.
TLC systems for the separation of some estrogen acetates 256(1983)375
Renzi, N.L., see Grindel, J.M. 272(1983)210
Repta, A.J., see Bannister, S.J. 273(1983)301
Rexová-Benková, L., see Vrátný, P. 257(1983)23
Reynaud, J., see Calaf, R. 272(1983)385
Řezanka, T., Vokoun, J., Slavíček, J. and Podojil, M.
Determination of fatty acids in algae by capillary GC-MS 268(1983)71
Rezl, V.
Elemental analysis of GC effluents (Review) 251(1982)35
Richards, D.A.
Use of HPLC to study the caeruloplasmin-catalysed oxidation of biogenic amines. I. Single substrate systems 256(1983)71
Richards, D.A.
Use of HPLC to study the caeruloplasmin-catalysed oxidation of biogenic amines. II. Multiple substrate systems 257(1983)53
Richardson, D.E., O'Grady, B.V. and Bremner, J.B.
Analysis of dehydroabietic acid in paper industry effluent by HPLC 268(1983)341
Richter, K., see Pötter, H. 273(1983)217
Rideout, J.M., see Parman, A.U. 256(1983)283
Rijks, J.A., see Schutjes, C.P.M. 253(1982)1
Riley, D.L., see Luderer, J.R. 273(1983)402
Risk, M., see Czerwinski, E.W. 261(1983)134
Rivier, J. and McClintock, R.
Reversed-phase HPLC of insulins from different species 268(1983)112
Robards, K., see Dilli, S. 270(1983)313
Roberge, A.G., see Sayem-El-Daher, N. 256(1983)313
Robert, J.C., Vatier, J., Nguyen Phuoc, B.K. and Bonfils, S.
Determination of histamine, methylhistamines and histamine-*o*-phthaldialdehyde complexes by two HPLC procedures. Application to biological samples 273(1983)275
Roberts, S.G., see Burch, J.E. 274(1983)350
Robie, N.W. and DuSapin, K.S.
Electrochemical detection for plasma catecholamines: apparent loss of dihydroxybenzylamine in dog plasma 270(1983)366
Robinson, A.K., see Williams, R.F. 266(1983)141
Robinson, P.A., see Vickers, M.F. 275(1983)428
Robles de Medina, E.O., see Plomp, T.A. 273(1983)379
Robson, A.M., see Philips, S.R. 254(1983)257
Rochemont, J., see Seidah, N.G. 266(1983)213
Rochon, Y.P., see MacDonald, I.A. 259(1983)154
Rodriguez, E., see Marchand, B. 265(1983)97
Rodriguez, P.A., Culbertson, C.R. and Eddy, C.L.
Improved radioactivity detector for fused-silica capillary columns 264(1983)393
Roets, E., see Kibwage, I.O. 256(1983)164
Rogers, L.B., see Kraus, S. 257(1983)237
Rogers, L.B., see Lewis, J.J. 264(1983)339
Rogers, M.E., Adlard, M.W., Saunders, G. and Holt, G.
HPLC determination of β-lactam antibiotics, using fluorescence detection following post-column derivatization 257(1983)91
Rogers, T.J., see Williams, R.R. 266(1983)179
Rogozhin, S.V., see Zaslavsky, B.Y. 253(1982)139, 253(1982)149, 256(1983)49, 260(1983)329
Rojas, R.R., see Baust, J.G. 261(1983)65
Rokushika, S., Qiu, Z.Y. and Hatano, H.
Micro column ion chromatography with a hollow fibre suppressor 260(1983)81
Rokushika, S., Sun, Z.L. and Hatano, H.
Anion chromatography of carboxylic acids

and keto acids using a hollow-fibre suppressor 253(1982)87
Romero, M.L., see Enríquez, R.G. 258(1983)297
Rood, S.B., see Koshioka, M. 256(1983)101
Rooney, L., see Brodie, R.R. 274(1983)179
Roquet, F., see Montay, G. 272(1983)359
Rosa, J., see Blouquit, Y. 275(1983)41
Rosa, R., see Chen-Marotel, J. 258(1983)213
Rose, K.
Simple and effective direct coupling for GC-MS on the MS 50 mass spectrometer. Full spectra up to n-$C_{54}H_{110}$ 259(1983)445
Rose, K., Bairoch, A. and Offord, R.E.
Amino acid sequence determination by GC-MS of permethylated peptides. The application of capillary columns 268(1983)197
Rose, L.M., see Coleman, D.R. 256(1983)363
Rosenblatt, M., see Tyler, G.A. 266(1983)313
Rosenblum, B.B., see Strahler, J.R. 266(1983)281
Rosenblum, M.G., Hersh, E.M. and Loo, T.L.
Determination of the biological response modifier MVE-2 (AD-022) in biological fluids by HPLC 272(1983)200
Rosenfelder, G., Chang, J.-Y. and Braun, D.G.
Sphingosine determination at the picomole level using dimethylaminoazobenzene sulphonyl chloride 272(1983)21
Rosset, R., see Combellas, C. 259(1983)211
Rosset, R., see Souteyrand, C. 262(1983)1
Rossetti, D., see Castagnola, M. 272(1983)51
Rossiter, M., see Alcock, N.J. 251(1982)165
Rotatori, M., see Laganà, A. 275(1983)168
Roth, M. and Novák, J.
Utilization of the solution-of-groups concept in GLC 258(1983)23
Roth, M., Vejrosta, J. and Novák, J.
Effect of gas-phase non-ideality on the concentration of standard gaseous mixtures prepared by the saturation method 262(1983)305
Roth, M., see Vejrosta, J. 265(1983)215
Rothman, A.M.
HPLC method for determining ethoxymer distribution of alkylphenoxy polyoxyethylene surfactants 253(1982)283
Rothstein, D., see Huang, J.-C. 256(1983)213, 261(1983)1
Rouan, M.C., Abadie, F., Leclerc, A. and Juge, F.
Systematic approach to the determination of cephalosporins in biological fluids by reversed-phase LC 275(1983)133
Rouanet, J.-P., see Bauer, M. 259(1983)360
Roumeliotis, P., Unger, K.K., Kurganov, A.A. and Davankov, V.A.
High-performance ligand-exchange chromatography of α-amino acid enantiomers. Studies on monomerically bonded 3-(L-prolyl)- and 3-(L-hydroxyprolyl)propyl silicas 255(1983)51
Rounds, M.A., see Kopaciewicz, W. 266(1983)3
Rovei, V., see Vajta, S. 274(1983)139
Rowland, M., see Unadkat, J.D. 261(1983)298
Rowland, S.J., see Attygalle, A.B. 260(1983)411
Roy, T., see Paik, W.K. 256(1983)331
Ruijten, H.M., Van Amsterdam, P.H. and De Bree, H.
Qualitative ion-pair reversed-phase TLC 252(1982)193
Ruiter, C. de, see De Ruiter, C. 255(1983)79
Rullo, K.T., see Bissinger, J.M. 268(1983)102
Rulon, P.W., see Sullivan, J.F. 261(1983)265
Rumiantsev, D.O., see Piotrovskii, V.K. 275(1983)195
Rurak, A., see Overzet, F. 267(1983)329
Russell, D.H., Ellingson, J.D. and Davis, T.P.
Analysis of polyamines and acetyl derivatives by a single automated amino acid analyzer technique 273(1983)263
Rusznák, I., see Trézl, L. 269(1983)40
Ryan, P.A., Manning, J.N. and Davis, P.F.
Purification of salt-soluble cross-linked elastin by hydrophobic interaction chromatography 275(1983)31

S

Sabourin, M.A., see Phipps, J.A. 272(1983)392
Sackett, P.H., see Schaar, J.C. 267(1983)232
Sadowski, R. and Wójcik, W.
Chromatography of chloroplast carotenoids on magnesium oxide thin layers 262(1983)455
Šafařík, I.
Affinity chromatography of trypsin on thermally modified casein 261(1983)138
St-Pierre, S., see Marceau, F. 266(1983)173
Saito, A., see Takagi, T. 272(1983)279
Saito, K., see Kaji, H. 272(1983)166
Saito, N., see Kaji, H. 272(1983)166
Saito, S., see Takeuchi, T. 258(1983)125
Sakaguchi, T., see Ikeda, M. 272(1983)251
Sakaguchi, T., see Sato, A. 275(1983)97
Sakodynskii, K.I., see Yeroshenkova, G.V. 262(1983)19
Sakuma, Y., see Nakagawa, A. 256(1983)231
Sala, C., see De Pascale, A. 256(1983)352
Salmi, A., see Jalkanen, M. 268(1983)79
Salvador, G.C., see Tan, H.S.I. 261(1983)111
Salvi, M.L., see Castagnola, M. 272(1983)51
Samejima, K., see Shirahata, A. 262(1983)451
Sánchez-Rasero, F., see Peña Heras, A. 261(1983)166
Sandman, R.
Determination of 4-methylumbelliferone after separation from its conjugates by HPLC. Application to lysosomal enzyme activity assays 272(1983)67
Sandrenan, N., see Sioufi, A. 272(1983)103
Sang, J.P.
Estimation of menthone, menthofuran,

menthyl acetate and menthol in peppermint oil by capillary GC 253(1982)109
Sannia, G., see Pucci, P. 270(1983)371
Sano, M., see Takasu, A. 272(1983)243
Saro, L., see Birkenmeier, G. 265(1983)27
Sartorelli, A.C., see Hadfield, A.F. 257(1983)1
Sarver, E.W., see Bossle, P.C. 267(1983)209
Sasaki, H., see Kamimura, H. 275(1983)81
Sasaki, M., see Kato, Y. 265(1983)342, 266(1983)341
Sassa, T., see Koshioka, M. 256(1983)101
Sato, A., Shimada, K., Izumo, Y. and Sakaguchi, T.
HPLC determination of phenytoin and hydroxyphenytoin in human urine 275(1983)97
Sato, T., see Kadofuku, T. 275(1983)71
Sato, T., see Minobe, S. 262(1983)193
Saunders, G., see Rogers, M.E. 257(1983)91
Sävenhed, R., see Borén, H. 252(1982)139
Savoie, F., Diquet, B. and Savoie, J.C.
Synthesis of [^{125}I]amiodarone and its purification by HPLC 261(1983)305
Savoie, J.C., see Savoie, F. 261(1983)305
Savolainen, K.E., see Korhonen, R.T. 275(1983)418
Sawamoto, Y., see Hirokawa, T. 271(1983)D1
Sayem-El-Daher, N., Simard, R.E., L'Heureux, L. and Roberge, A.G.
Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313
Scandurra, R., see Politi, L. 267(1983)403
Scarso, A., see Viville, R. 262(1983)411
Schaar, J.C. and Sackett, P.H.
Rapid determination of acrylonitrile in water and acetonitrile by HPLC 267(1983)232
Schäfer, K.H., see Levsen, K. 271(1983)51
Schamp, N., see Van Langenhove, H. 257(1983)170
Schenck, P.A., see Klok, J,. 253(1982)55
Schiebel, H.-M., see Seliger, H. 253(1982)65
Schilling, B., see Grob, K. Jr. 259(1983)37, 260(1983)265, 264(1983)7
Schinke, I., see Eppert, G. 260(1983)305
Schlabach, T., see Cunico, R.L. 266(1983)461
Schlabach, T.D.
Dual-detector methods for selective identification of prolyl residues and amide-blocked N-terminal groups in chromatographically separated peptides 266(1983)427
Schlett, R., see Von Stetten, O. 254(1983)229
Schlimme, E., see Hagemeier, E. 268(1983)291
Schmeltz, I., Matasker, J. and Ratchik, E.
GC determination of solvent residues and other materials in chemical and fermentation wastes 268(1983)31
Schmidt, A., see Krauss, F. 264(1983)111
Schmidt, L., see Jungclas, H. 271(1983)35
Schmitz, F.P., Hilgers, H. and Klesper, E.
Gradient elution in supercritical fluid chromatography 267(1983)267
Schmuck, M.N., see Gooding, K.M. 266(1983)633
Schmuckler, G., see Hershcovitz, H. 252(1982)113
Schneider, H.G., see Haky, J.E. 264(1983)287
Schoffstall, A.M., see Ramos, D.L. 261(1983)83
Scholz, B. and Ballschmiter, K.
Chromatographic separation and analytical characterization of bacteriochlorophylls *ap*, *agg* and *b* 252(1982)269
Schomburg, G., see Köhler, J. 255(1983)311
Schön, V., see Beran, M. 268(1983)315
Schott, H. and Schrade, H.
Preparative isolation of mono-, di- and tripurine nucleotides from hydrolyzates of depyrimidinated herring sperm DNA (in German) 265(1983)257
Schou, O., Gotfred, L. and Larsen, P.
Isolation by preparative chromatography and characterization of styrene oligomers from 1 to 18 and their application in pore size distribution determination 254(1983)289
Schoun, J., see Haegele, K.D. 274(1983)103
Schrade, H., see Schott, H. 265(1983)257
Schreurs, V.V.A.M., Boekholt, H.A. and Koopmanschap, R.E.
Gel filtration in sodium dodecyl sulphate of hydrophobic muscle proteins on Sephacryl S-400 Superfine 254(1983)203
Schroeder, W. III, Cupps, T.L. and Townsend, L.B.
Quantitative HPLC of structurally similar nucleosides 254(1983)315
Schuette, S.A., see Butler, H.T. 261(1983)55
Schulten, H.-R.
Off-line combination of LC and field desorption MS: principles and environmental, medical and pharmaceutical applications 251(1982)105
Schulten, H.-R., see Seliger, H. 253(1982)65
Schultz, B.
Determination of priority pollutant nitrophenols in water by HPLC 269(1983)208
Schunck, W., see Jahns, G. 259(1983)195
Schutjes, C.P.M., Vermeer, E.A., Rijks, J.A. and Cramers, C.A.
Increased speed of analysis in isothermal and temperature-programmed capillary GC by reduction of the column inner diameter 253(1982)1
Schwartz, I.K., see Churchill, F.C. II 274(1983)111
Schwarzenbach, R.
HPLC of carboxylic acids (Review) 251(1982)339
Schwedt, G., see Jahns, G. 259(1983)195
Schweer, H.
GC separation of enantiomeric sugars as diastereomeric trifluoroacetylated (-)-bornyloximes 259(1983)164
Schwerkoske, J.F., see Ingalls, S.T. 274(1983)366
Scott, A., see White, P.C. 265(1983)293
Scott, D.M., see Fritz, J.S. 271(1983)193

Scott, E.N., see Parkinson, A.J. 254(1983)219
Scott, H.P., see Fell, A.F. 273(1983)3
Scott, R.P.W., see Katz, E. 253(1982)159, 260(1983)277
Scott, R.P.W., see Katz, E.D. 268(1983)169, 270(1983)29, 270(1983)51
Secchi, C., see Biondi, P.A. 273(1983)393
Sedláček, J., see Mareš, P. 275(1983)295
Sedvall, G., see Alfredsson, G. 274(1983)325
Seegal, R.F., Brosch, K.O. and Bush, B.
Direct determination of 4-hydroxy-3-methoxyphenylacetic (homovanillic) acid in urine by HPLC with amperometric detection 273(1983)253
Seemann-Preising, B., see Seliger, H. 253(1982)65
Segelman, A.B., see Bartlett, J.M. 255(1983)239
Seidah, N.G., Pélaprat, D., Rochemont, J., Lambelin, P., Dennis, M., Chan, J.S.D., Hamelin, J., Lazure, C. and Chrétien, M.
Enzymatic maturation of pro-opiomelanocortin by anterior pituitary granules. Methodological approach leading to definite characterization of cleavage sites by means of HPLC and microsequencing 266(1983)213
Seidah, N.G., see Dennis, M. 266(1983)163
Seki, T., see Yamaguchi, Y. 273(1983)87
Seliger, H., Bach, T.C., Görtz, H.-H., Happ, E., Holupirek, M., Seemann-Preising, B., Schiebel, H.-M. and Schulten, H.-R.
HPLC in combination with field desorption MS: separation and identification of building blocks for polynucleotide synthesis 253(1982)65
Sellitti, D.F. and Latham, K.R.
Multiple affinity classes of saturable triiodothyronine binding in mouse liver nuclear extract demonstrated using high-performance size exclusion chromatography 268(1983)300
Senan, C., see Blouquit, Y. 275(1983)41
Sepaniak, M.J., see Maskarinec, M.P. 261(1983)245
Serve, L., Piovetti, L. and Longuemard, N.
Analysis of phenolic acids and aldehydes by HPLC: a comparative analysis of high mountain soils and their vegetation (in French) 259(1983)319
Sethi, S.K., Crain, P.F. and McCloskey, J.A.
Formation of a new derivative of secondary amines during trimethylsilylation with N,O-bis(trimethylsilyl)fluoroacetamide. N-(Aminomethylene)-2,2,2-trifluoroacetamides 254(1983)109
Setoyama, M., see Osaki, S. 257(1983)180
Severson, R.F., see Arrendale, R.F. 254(1983)63
Sevini, F. and Marcato, B.
Chromatographic determination of some hindered amine light stabilizers in polyolefins 260(1983)507
Seyer, J.M., see Gilliom, R.D. 254(1983)211
Sgambati, C., see Lembo, S. 267(1983)427
Sha, S.-Z. and Stanley, G.
HPLC analysis of chlorophenols in cardboard food containers and related materials 267(1983)183
Shabanowitz, J., see Hunt, D.F. 271(1983)93
Shahabi, N.A., see Hutchens, T.W. 266(1983)115
Shahwan, G.J. and Jezorek, J.R.
LC of phenols on an 8-quinolinol silica gel-iron(III) stationary phase 256(1983)39
Shaikh, B.
HPLC determination of aniline in arsanilic acid and sodium arsanilate 268(1983)265
Shand, D., see Verghese, C. 275(1983)367
Shand, D.G., see Verghese, C. 272(1983)149
Sharples, W.E., see Haken, J.K. 267(1983)1
Shaw, I.C., McLean, A.E.M. and Boult, C.H.
Analysis of D-penicillamine by HPLC with glassy carbon electrochemical detection 275(1983)206
Shaw, P.G., see Kacprowicz, A.T. 272(1983)417
Shaw, P.N., Sivner, A.L., Aarons, L. and Houston, J.B.
A rapid method for the simultaneous determination of the major metabolites of sulphasalazine in plasma 274(1983)393
Shearer, C.M., see Bissinger, J.M. 268(1983)102
Shenbagamurthi, P., Naider, F., Becker, J.M. and Steinfeld, A.S.
Purification of synthetic analogues of yeast mating hormone by reversed-phase chromatography 256(1983)117
Shepherd, M.J., Wallwork, M.A. and Gilbert, J.
Chlorine-selective monitoring for HPLC with a Hall electrolytic conductivity detector 261(1983)213
Sheppard, P.N., see Alexander, R. 267(1983)367
Shibukawa, A., see Nakagawa, T. 254(1983)27
Shibusawa, Y., see Matsumoto, U. 268(1983)375
Shiga, N., Matano, O. and Goto, S.
Determination of benzomate in plant tissues by HPLC 257(1983)151
Shihabi, Z.K., see Powell, S.C. 270(1983)332
Shimada, K., see Ikeda, M. 272(1983)251
Shimada, K., see Sato, A. 275(1983)97
Shimizu, C., see Mizuno, N. 264(1983)159
Shimizu, K., Amagaya, S. and Ogihara, Y.
Separation and quantitative analysis of saikosaponins by HPLC 268(1983)85
Shimizu, K., Amagaya, S. and Ogihara, Y.
Analysis of corticosterone in the serum of mice and rats using HPLC 272(1983)170
Shimizu, M., see Kamimura, H. 275(1983)81
Shimizu, R., Ishii, K., Tsumagari, N., Tanigawa, M., Matsumoto, M. and Harrison, I.T.
Determination of optical isomers in diltiazem hydrochloride by HPLC 253(1982)101
Shimohigashi, Y., Lee, R. and Chen, H.-C.
Gel HPLC studies on the elution behavior of chemically deglycosylated human chorionic gonadotropin and its subunits 266(1983)555
Shimokawa, Y., see Kuromizu, K. 267(1983)199
Shimono, T., Isobe, T. and Tarutani, T.
Study of the polymerization of silicic acid

in aqueous solution by trimethylsilylation-GC 258(1983)73
Shing, Y.W., see Sullivan, R.C. 266(1983)301
Shingari, M.K., see Conder, J.R. 269(1983)171
Shinkuma, D., see Mizuno, N. 264(1983)159
Shinohara, R., Kido, A., Okamoto, Y. and Takeshita, R.
Determination of trace azaarenes in water by GC and GC-MS 256(1983)81
Shinohara, R., see Okamoto, Y. 254(1983)35
Shirahata, A., Takeda, Y., Kawase, M. and Samejima, K.
Detection of spermine and thermospermine by TLC 262(1983)451
Shono, T., see Tanaka, M. 267(1983)292
Shono, T., see Wu, H.-L. 269(1983)183
Shoup, R.E., see Mayer, G.S. 255(1983)533
Siard, P., see Farinotti, R. 269(1983)81
Sigl, G., see Heumann, K.G. 262(1983)211
Silas, J.H., see Lennard, M.S. 272(1983)205
Silva, J.A.F. de, see De Silva, J.A.F. 273(1983)19, 275(1983)319
Silver, H.F., see Hussain, A. 252(1982)21
Simard, R.E., see Sayem-El-Daher, N. 256(1983)313
Simmons, W.H. and Meisenberg, G.
Separation of Dns-amino acid amides by HPLC 266(1983)483
Simon, G., see Prognon, P. 272(1983)193
Simon, R., see Wells, G. 256(1983)1
Simonian, M.H. and Capp, M.W.
Purification of poly(A)-messenger ribonucleic acid by reversed-phase HPLC 266(1983)351
Simonic, T., see Biondi, P.A. 273(1983)393
Simons, K.J., see Briggs, C.J. 257(1983)132
Simonyi, M., see Fitos, I. 259(1983)494
Simpson, R.C., Spriggle, J.E. and Veening, H.
Off-line LC-MS studies of *o*-phthalaldehyde-primary amine derivatives 261(1983)407
Simpson, R.J., see Stanton, P.G. 266(1983)273
Šindelková, E., see Mareš, P. 273(1983)172
Singh, B.N., see Kannan, R. 272(1983)428
Singh, N.P., see Turturro, A. 252(1982)335
Singhal, R.P.
HPLC of transfer RNAs. Separation of transfer RNAs from mammalian sources 266(1983)359
Singlas, E., see Merdjan, H. 273(1983)475
Sinkule, J.A. and Evans, W.E.
HPLC assay for cytosine arabinoside, uracil arabinoside and some related nucleosides 274(1983)87
Siouffi, A.M., see Guiochon, G. 255(1983)415
Sioufi, A., Colussi, D. and Mangoni, P.
Determination of oxyphenbutazone in human plasma by HPLC 275(1983)201
Sioufi, A., Leroux, F. and Sandrenan, N.
GC determination of metoprolol in human plasma 272(1983)103
Sirois, G., see Colin, P. 273(1983)367
Sista, H.S., Dye, D.M. and Leonard, J.
HPLC method for determination of sulfapyridine in human saliva using post-column, in-line derivatization with fluorescamine 273(1983)464
Sistovaris, N., Pola, W. and Wolhoff, H.
TLC determination of major metamizole metabolites in serum and urine 274(1983)289
Sitaram, B.R., Talomsin, R., Blackman, G.L., McLeod, W.R. and Vaughan, G.N.
Separation of the indolealkylamines and their analogous tetrahydro-β-carbolines by LC 275(1983)21
Siu, K.W.M. and Aue, W.A.
A Variac-driven electron-capture detector 268(1983)273
Siu, K.W.M., Fraser, M.E. and Berman, S.S.
Effect of ligand doping on the GC of the trifluoroacetylacetonates of chromium(III), aluminium(III) and iron(III) 256(1983)455
Sivner, A.L., see Shaw, P.N. 274(1983)393
Sjöström, E., see Hyppänen, T. 261(1983)320
Sjut, V. and Palmer, M.V.
Reversed-phase HPLC of plant hormones: some useful differences in stationary phase selectivity 270(1983)309
Skarping, G., Renman, L. and Dalene, M.
Trace analysis of amines and isocyanates using glass capillary GC and selective detection. II. Determination of aromatic amines as perfluorofatty acid amides using nitrogen-selective detection 270(1983)207
Skarping, G., Renman, L. and Smith, B.E.F.
Trace analysis of amines and isocyanates using glass capillary gas chromatography and selective detection. I. Determination of aromatic amines as perfluoro fatty acid amides using electron-capture detection 267(1983)315
Skořepa, J., Kahudová, V., Kotrlíková, E., Mareš, P. and Todorovičová, H.
GLC profiling of intact lipids. Observation of differences between triglyceride structure of lipoproteins in type III and type IV hyperlipoproteinemia 273(1983)180
Skořepa, J., see Mareš, P. 273(1983)172, 275(1983)295
Skrabalak, D.S., see Sugnaux, F.R. 264(1983)357
Slaats, H.J.L.A., see Reijenga, J.C. 267(1983)85
Šlais, K. and Kouřilová, D.
Minimization of extra-column effects with microbore columns using electrochemical detection 258(1983)57
Slavica, B., see Pekić, B. 268(1983)237
Slavíček, J., see Řezanka, T. 268(1983)71
Slifkin, M.A. and Liu, S.H.
"Charge transfer" TLC of nucleic acid bases and polycyclic aromatic hydrocarbons 269(1983)103
Slik, W. van der, see Van der Slik, W. 275(1983)261
Sluis, W.G. van der, see Van der Sluis, W.G. 259(1983)522
Small, D.A.P., Atkinson, T. and Lowe, C.R.
Preparative high-performance liquid affinity chromatography 266(1983)151

Smethurst, A.M. and Mann, W.C.
Determination by HPLC of pipemidic acid in human serum and urine 274(1983)421
Smith, A.E. and Milward, L.J.
TLC detection of the herbicide asulam in soils and the identification of sulphanilamide as a minor soil degradation product 265(1983)378
Smith, B.E.F., see Skarping, G. 267(1983)315
Smith, K.J., see Miners, J.O. 275(1983)89
Smith, M.S., see Verghese, C. 272(1983)149
Smith, N.B.
GLC of cholesteryl esters on non-polar and polar capillary columns following on-column injection 254(1983)195
Smith, R.V. and De Moreno, M.R.
Determination of apomorphine and N-*n*-propylnorapomorphine in plasma using HPLC and fluorescence detection 274(1983)376
Smith, R.W., see Alcock, N.J. 251(1982)165
Smolková, E., see Dufek, P. 257(1983)247
Smolková-Keulemansová, E.
Cyclodextrins as stationary phases in chromatography (Review) 251(1982)17
Smrž, M., see Mikeš, O. 261(1983)363
Snape, B.M., see Holman, R.B. 262(1983)415
Snyder, F., see Blank, M.L. 273(1983)415
Snyder, L.R.
Mobile phase effects in LSC. Importance of adsorption-site geometry, adsorbate delocalization and hydrogen bonding 255(1983)3
Snyder, L.R., see Larmann, J.P. 255(1983)163
Snyder, L.R., see Stout, R.W. 261(1983)189
Snyder, L.R., see Van der Wal, S. 255(1983)463
Snyder, P., see Gaffney, J.S. 262(1983)321
Söderberg, L., see Lindblom, H. 266(1983)187
Soderling, T.R. and Walsh, K.
Selective modification and purification of phosphopeptides for automated sequence analysis 253(1982)243
Soeterboek, A.M., see Claessens, H.A. 275(1983)345
Šoltés, L., Kállay, Z., Trnovec, T., Ďurišová, M. and Plšková, M.
Monitoring of ethimizol and its metabolites in serum or saliva by means of HPLC 273(1983)213
Soltys, J.S., see Barden, A.E. 275(1983)229
Someno, T., Katoh, K., Nijima, K. and Miyazaki, H.
Determination of urokinase activity by HPLC with radioisotope detection 253(1982)81
Sommer, H.Z., see Bossle, P.C. 267(1983)209
Sopher, D.W., see Himmel, M.E. 267(1983)249
Sörbo, B., see Kågedal, B. 274(1983)95
Sørensen, H., see Clausen, S. 260(1983)193
Souteyrand, C., Thibert, M., Caude, M. and Rosset, R.
Influence of water in LSC systems on retention data. I. Adsorption isotherms of the interface of class N solvents and silica gels 262(1983)1
Špaček, P., see Tellerová, K. 273(1983)197
Spalik, J., Janauer, G.E., Lau, M. and Lemley, A.T.
Rapid two-step preconcentration procedure for Aldicarb determination in water by HPLC using a 254-nm detector 253(1982)289
Spall, W.D., see Gurley, L.R. 266(1983)609
Spangelo, B.L., see Low, T.L.K. 266(1983)533
Spanjer, M.C. and De Ligny, C.L.
Substituent interaction effects in aromatic molecules in reversed-phase LC 253(1982)23
Spencer, H.J.
Injector and splitter system for silica wall-coated open tubular column GC 260(1983)164
Spittler, T.D. and Marafioti, R.A.
Determination of carbofuran and its metabolites 255(1983)191
Spitzer, T. and Dannecker, W.
Glass capillary GC of polynuclear aromatic hydrocarbons in aircraft turbine particulate emissions using stationary phases of varying polarity 267(1983)167
Spragg, B.P. and Hutchings, A.D.
HPLC determination of putrescine, spermidine and spermine after derivatisation with 4-fluoro-3-nitrobenzotrifluoride 258(1983)289
Spreux-Varoquaux, O., Chapalain, J.P., Cordonnier, P., Advenier, C., Pays, M. and Lamine, L.
Determination of trimethoprim, sulphamethoxazole and its N^4-acetyl metabolite in biological fluids by HPLC 274(1983)187
Spriggle, J.E., see Simpson, R.C. 261(1983)407
Springston, S.R., Melda, K. and Novotný, M.V.
Immobilization of silicone stationary phases for capillary chromatography through the action of azoisobutyronitrile 267(1983)395
Sprissler, B., see Lockwood, F.E. 262(1983)397
Srinivasan, K.V., see Ayyangar, N.R. 267(1983)399
Srisukh, D., see Haken, J.K. 257(1983)107
Srivastava, K.C. and Awasthi, K.K.
Separation and quantitative determination of radiolabeled prostaglandins, thromboxanes, 6-keto-prostaglandin $F_{1\alpha}$ and other arachidonic acid metabolites produced in biological material 275(1983)61
Stadalius, M.A., see Larmann, J.P. 255(1983)163
Stahel, O., see Little, C.J. 264(1983)183
Stahel, O., see Werkhoven-Goewie, C.E. 255(1983)79
Stahovec, W.L., see Mopper, K. 256(1983)243
Stall, W.J., see Nakamura, G.R. 264(1983)336
Stan, H.-J. and Goebel, H.
Automated capillary GC analysis of pesticide residues in food 268(1983)55
Stancher, B. and Zonta, F.
HPLC of fat-soluble vitamins. Simultaneous quantitative analysis of vitamins D_2, D_3 and

E. Study of percentage Recoveries of vitamins from cod liver oil 256(1983)93
Stankoviansky, S., see Kaniansky, D. 267(1983)67
Stanley, G., see Sha, S.-Z. 267(1983)183
Stanojčić, M., see Beckett, A.H. 270(1983)151
Stanton, P.G., Simpson, R.J., Lambrou, F. and Hearn, M.T.W.
HPLC of amino acids, peptides and proteins. XLVII. Analytical and semi-preparative separation of several pituitary proteins by high-performance ion-exchange chromatography 266(1983)273
Staszewski, R., see Przyjazny, A. 262(1983)199
Staszewski, R., see Zygmunt, B. 265(1983)136
Stegnjaich, S., see Moro, E. 274(1983)281
Steinbrecher, K.
TLC identification of phenothiazine derivative drugs 260(1983)463
Steinfeld, A.S., see Shenbagamurthi, P. 256(1983)117
Stepanek, J.
Quantitative determination of myo-inositol in pharmaceutical preparations and organic extracts by HPLC using fluorescence 257(1983)405
Sternson, L.A., see Bannister, S.J. 273(1983)301
Stetten, O. von, see Von Stetten, O. 254(1983)229
Stewart, J.T., see Lang, J.R. 252(1982)288, 264(1983)144
Steyn, P.S., see Gorst-Allman, C.P. 262(1983)446
Stoklosa, J.T., see Bissinger, J.M. 268(1983)102
Stolyhwo, A., Colin, H. and Guiochon, G.
Use of light scattering as a detector principle in LC 265(1983)1
Stone, B.A., see Henry, R.J. 256(1983)419, 262(1983)249
Stout, R.W., DeStefano, J.J. and Snyder, L.R.
Larger-diameter small-particle columns for fast HPLC separations with conventional equipment 261(1983)189
Stout, R.W., see Larmann, J.P. 255(1983)163
Stover, F.S., Deppermann, K.L. and Grote, W.A.
Automated data acquisition and control system for isotachophoresis 269(1983)198
Strahler, J.R., Rosenblum, B.B., Hanash, S. and Butkunas, R.
Separation of transferrin types in human plasma by anion-exchange HPLC 266(1983)281
Strasberg, P.M. and Lowden, J.A.
Rapid molecular weight determination for native glucocerebrosidase from human placenta using HPLC 261(1983)419
Strausz, O.P., see Dimmler, A. 270(1983)219
Strocchi, E., see Camaggi, C.M. 275(1983)436
Strömberg, L., Bergkvist, H. and Edirisinghe, E.A.M.K.
Comparative GC analysis of narcotics. IV. Methamphetamine hydrochloride 258(1983)65
Štrop, P., Čechová, D. and Tomášek, V.
Model study of hydrophobic interactions of α- and β-trypsin and α-chymotrypsin 259(1983)255
Štrop, P., see Mikeš, O. 261(1983)363
Štrop, P., see Vrátný, P. 257(1983)23
Strunin, L., see Phipps, J.A. 272(1983)392
Strüssmann, A., Marshall, R.C. and Zahn, H.
Specific radiolabelling of keratin proteins by amidination 268(1983)306
Štulík, K. and Pacáková, V.
HPLC of biologically important pyrimidine derivatives with UV-voltammetric-polarographic detection 273(1983)77
Štulík, K., Pacáková, V. and Podolák, M.
Effect of various measuring techniques on the response of a polarographic HPLC detector 262(1983)85
Sugawara, T., see Murayama, K. 274(1983)63
Sugii, A., Harada, K. and Tobino, T.
Porous sulphonic acid resins as subtractor for olefins in GC 254(1983)270
Sugnaux, F.R. and Djerassi, C.
LC-MS of polar lipids. Comparison of on-line method using direct liquid introduction interface with off-line method using desorption/chemical ionization 251(1982)189
Sugnaux, F.R., Skrabalak, D.S. and Henion, J.D.
Direct liquid introduction micro-LC-MS coupling. Optimization of droplet desolvation and instrumental parameters for high sensitivity 264(1983)357
Sukkel, J.T., see Venema, A. 269(1983)179
Sullivan, J.A., see Levine, S.P. 257(1983)255
Sullivan, J.F. and Grob, R.L.
Elemental microanalysis of organic and organometallic compounds using pyrolysis-GC 268(1983)219
Sullivan, J.F., Grob, R.L. and Rulon, P.W.
Multielemental microanalysis of organic compounds using GC 261(1983)265
Sullivan, R.C., Shing, Y.W., D'Amore, P.A. and Klagsbrun, M.
Use of size-exclusion and ion-exchange HPLC for the isolation of biologically active growth factors 266(1983)301
Sum, C.Y., Mai, K., Kam, S.-T., Lai, C.-M., Yacobi, A. and Kalhorn, T.F.
GLC analysis of hydroxyethyl-starch 254(1983)187
Sumere, C.F. van, see Van Sumere, C.F. 258(1983)111, 259(1983)291
Sumiya, E., see Hirata, Y. 267(1983)125
Sun, Z.L., see Rokushika, S. 253(1982)87
Sundholm, E.G.
More economical use of high-performance thin-layer plates for chromatographic screening of illicit drug samples 265(1983)285
Sundholm, E.G., see Alm, S. 254(1983)179
Sunouchi, M., see Inoue, K. 274(1983)201
Suortti, T. and Von Wright, A.
Isolation of a mutagenic fraction from aqueous extracts of the wild edible

mushroom *Lactarius necator* (a preliminary note) 255(1983)529
Sureau, C., see Jouve, J. 274(1983)53
Sutcliffe,N., see Bristow, A.F. 270(1983)285
Suzuki, A., see Miyao, Y. 275(1983)443
Suzuki, M., see Oka, H. 260(1983)457
Suzuki, S., Inoue, T. and Niwaguchi, T. Rapid screening method for methamphetamine in urine by colour reaction in a Sep-Pak C_{18} cartridge 267(1983)381
Suzuki, Y., see Hashimoto, K. 260(1983)429
Švec, A., see Kaniansky, D. 258(1983)238
Švec, F., see Hradil, J. 259(1983)269
Svoboda, M., Svobodová, X. and Vacík, J. Some quantitative aspects of UV detection in capillary isotachophoresis as applied to bioavailability studies 273(1983)228
Svobodová, X., see Svoboda, M. 273(1983)228
Swartz, M., see Krull, I.S. 260(1983)347
Sweetman, J.A., see Tong, H.Y. 264(1983)231
Sybilska, D. and Kościelski, T. β-Cyclodextrin as a selective agent for the separation of *o*-, *m*- and *p*-xylene and ethylbenzene mixtures in GLC 261(1983)357
Sybilska, D., Lipkowski, J. and Wóycikowski, J. α-Cyclodextrin as selective agent for the separation of *o*-, *m*- and *p*-nitrobenzoic acids by reversed-phase HPLC 253(1982)95
Sye, W.F., see Ahmed, A.E. 259(1983)169
Sylvia, V.L. and Holman, G.M. Isolation and HPLC purification of a myotropic peptide from the hindgut of the crayfish, *Procambarus clarkii* 261(1983)158
Syu, W.-J., Wu, S.-H. and Wang, K.-T. Purification of papain by affinity chromatography 262(1983)346
Szász, G., Papp, O., Vámos, J., Hankó-Novák, K. and Kier, L.B. Relationships between molecular connectivity indices, partition coefficients and chromatographic parameters 269(1983)91
Szász, G., see Papp, O. 252(1982)67
Szczepaniak, W., see Wasiak, W. 257(1983)13
Szejtli, J., see Cserháti, T. 259(1983)107
Szejtli, J., see Zsadon, B. 270(1983)127
Szilasi, M., see Zsadon, B. 270(1983)127
Szulc, J. and Witkiewicz, Z. Properties of single and mixed liquid-crystalline stationary phases. I. Single liquid-crystalline stationary phases 262(1983)141
Szulc, J., Witkiewicz, Z. and Ziółek, A. Properties of single and mixed liquid-crystalline stationary phases. II. Mixed liquid-crystalline stationary phases 262(1983)161

T

Tada, Y., see Matsushita, S. 259(1983)459
Tadrus, R., see Kaistha, K.K. 267(1983)109
Takács, J.M., see Budahegyi, M.V. 271(1983)213
Takagi, S., Nobuhara, Y. and Nakanishi, Y. Formation of penicillin polymers and determination of molecular weight 258(1983)262
Takagi, T., Chung, T.G. and Saito, A. Determination of polyamines in hydrolysates of uremic plasma by high-performance cation-exchange column chromatography 272(1983)279
Takahashi, A., see Kato, T. 256(1983)61
Takahashi, G., see Hashimoto, K. 260(1983)429
Takahashi, K., Kaizuka, H. and Oshima, Y. Applications of three-dimensional UV absorbance-HPLC patterns for the analysis of plant extracts 268(1983)522
Takahashi, K., see Kaizuka, H. 258(1983)135
Takahashi, K., see Ohshima, Y. 258(1983)292
Takahashi, M., see Honda, S. 274(1983)45
Takahashi, N., Takahashi, Y. and Putnam, F.W. Two-dimensional HPLC and chemical modification in the strategy of sequence analysis. Complete amino acid sequence of the lambda light chain of human immunoglobulin D 266(1983)511
Takahashi, N., see lozier, J. 266(1983)545
Takahashi, N., see Ortel, T.L. 266(1983)257
Takahashi, Y., see Takahashi, N. 266(1983)511
Takai, R., see Ôi, N. 256(1983)154
Takai, T., see Kakehi, K. 272(1983)1
Takamatsu, T., see Watabe, S. 260(1983)210
Takanaka, A., see Inoue, K. 274(1983)201
Takao, Y., see Kawase, J. 262(1983)293, 262(1983)408
Takaoka, M., see Funae, Y. 264(1983)249
Takashima, Y., see Osaki, S. 257(1983)180
Takasu, A., Ohya, K. and Sano, M. Determination of 20α-hydroxy-9β,10α-pregna-4,6-dien-3-one in plasma by selected ion monitoring 272(1983)243
Takeda, Y., see Shirahata, A. 262(1983)451
Takei, S., see Naito, K. 253(1982)205, 268(1983)359
Takeno, K., see Koshioka, M. 256(1983)101
Takeshita, R., see Okamoto, Y. 254(1983)35
Takeshita, R., see Shinohara, R. 256(1983)81
Takeuchi, T. and Ishii, D. Continuous gradient elution in micro HPLC 253(1982)41
Takeuchi, T., Ishii, D. and Mori, S. Separation of oligomers by high-performance micro gel permeation chromatography 257(1983)327
Takeuchi, T., Saito, S. and Ishii, D. Micro HPLC separations of bile acids 258(1983)125
Takeuchi, T., see Ishii, D. 255(1983)349

Talomsin, R., see Sitaram, B.R. 275(1983)21
Tam, G.K.H., Lacroix, G. and Lawrence, J.F.
GC separation of mono, di- and trimethyltin chlorides and tetramethyltin 259(1983)350
Tamura, Z., see Himuro, A. 264(1983)423
Tamura, Z., see Yazawa, K. 254(1983)327
Tan, H.S.I. and Salvador, G.C.
Assay of mixtures of phenylpropanolamine hydrochloride and caffeine in appetite suppressant formulations by HPLC 261(1983)111
Tan, L.
Simple, efficient ternary solvent system for the separation of luteinizing hormone-releasing hormone and enkephalins by reversed-phase HPLC 266(1983)67
Tanaka, E., Kinoshita, H., Yoshida, T. and Kuroiwa, Y.
Determination of trimethadione and its metabolite by GC with flame-thermionic detection and its application to pharmacokinetic studies of the drug in carbon tetrachloride-treated rats 272(1983)380
Tanaka, K., Karigane, T. and Yamaguchi, F.
Isolation of levanoligosaccharides from a partial acid hydrolysate of levan by cellulose CC 265(1983)374
Tanaka, M., Kawaguchi, Y. and Shono, T.
Retention behaviour of disubstituted benzene isomers on acetylated cyclodextrin stationary phases 267(1983)292
Tanaka, M., see Wu, H.-L. 269(1983)183
Tanaka, Y., see Matsumoto, U. 268(1983)375
Tanayama, S., see Motohashi, M. 253(1982)129
Tandy, N.E., Dilley, R.A. and Regnier, F.E.
HPLC purification of the hydrophobic ω subunit of the chloroplast energy coupling complex 266(1983)599
Taneja, A., see Cachia, P.J. 266(1983)651
Tangendjaja, B. and Wills, R.B.H.
Analysis of mimosine and 3-hydroxy-4(1*H*)-pyridone in plasma by HPLC 265(1983)143
Tani, M. and Iwai, K.
HPLC separation of physiological folate monoglutamate compounds. Investigation of absorption and conversion of pteroylglutamic acid in the small intestine of the rat *in situ* 267(1983)175
Tanigawa, M., see Shimizu, R. 253(1982)101
Tanner, R.J.N., see Martin, L.E. 251(1982)215
Tapang, M.A., see Co-Sarno, M.E. 266(1983)105
Tappa, R., see Ciccioli, P. 269(1983)47
Taraba, B., see Jandera, P. 262(1983)121
Tarján, G., see Budahegyi, M.V. 271(1983)213
Tarr, G.E., see Vensel, W.H. 266(1983)491
Tarutani, T., see Shimono, T. 258(1983)73
Tasker, R.F., see Buckingham, D.A. 262(1983)219
Taskinen, J., Mathela, D.K. and Mathela, C.S.
Composition of the essential oil of *Cymbopogon flexuosus* 262(1983)364
Tavakkol, A. and Drucker, D.B.
GC analysis of bacterial amines as their free bases 274(1983)37
Tax, J., see Beran, M. 268(1983)315
Taylor, J.L., Allmond, W.K. and Himel, C.M.
Affinity chromatography of acetylcholinesterase from *Electrophorus electricus* electroplax. Investigations of 9-aminoalkylacridine affinity ligands 257(1983)275
Taylor, J.S., see Koshioka, M. 256(1983)101
Tebbett, I.R. and Caddy, B.
Analysis of Cortinarius mushrooms by HPLC 268(1983)535
Tegyey, Z., see Fitos, I. 259(1983)494
Tei, I., see Kadofuku, T. 275(1983)71
Tellerová, K., Špaček, P. and Adam, M.
Urinary peptides in rheumatic diseases. Separation by reversed-phase HPLC 273(1983)197
Tepenier, D., see Faure, A. 257(1983)387
Teramae, M., see Kakehi, K. 272(1983)1
Terhune, S.J., see Baxter, J.A. 261(1983)130
Tevlin, A.B., see Kurganov, A.A. 261(1983)223
Thakur, S., see Ghosh, P. 258(1983)258
Thapa, B.B., see Brain, K.R. 258(1983)183
Theis, D.L. and Bowman, P.B.
Development of a LC method for the determination of triazolo-benzodiazepines 268(1983)92
Thibert, M., see Souteyrand, C. 262(1983)1
Thiel, M. van, see Van Thiel, M. 275(1983)345
Thierry-Palmer, M. and Gray, T.K.
Separation of the hydroxylated metabolites of vitamin D_3 by HPTLC 262(1983)460
Thijssen, H.H.W., Baars, L.G. and Reijnders, M.J.
Analysis of acenocoumarin and its amino and acetamido metabolites in body fluids by HPLC 274(1983)231
Thompson, R.E., see Dunn, D.L. 264(1983)264
Thomson, B.A., see Henion, J. 271(1983)107
Tibbetts, D.L., see Biffar, S. 257(1983)400
Tichá, M., see Turková, R. 257(1983)297
Tichý, J.
Influence of corticosteroid therapy on the fatty acid composition of serum lecithins monitored by means of TLC and GLC 273(1983)187
Tidwell, D., see Kannan, R. 272(1983)428
Tijssen, R., Bleumer, J.P.A. and Van Kreveld, M.E.
Separation by flow (hydrodynamic chromatography) of macromolecules performed in open microcapillary tubes 260(1983)297
Timár, I., see Budahegyi, M.V. 271(1983)213
Tingey, D.T., see Burns, W.F. 269(1983)1
Tkacz, R.J., see Maguire, R.J. 268(1983)99
Tobino, T., see Sugii, A. 254(1983)270
Todorovičová, H., see Skořepa, J. 273(1983)180
Tokunaga, E., see Tomono, T. 266(1983)39
Tokuya, T., see Kato, T. 256(1983)61
Tomášek, V., see Štrop, P. 259(1983)255

Tomlinson, E., see Grünbauer, H.J.M. 268(1983)277
Tomlinson, E., see Hafkenscheid, T.L. 264(1983)47
Tomono, T., Ikeda, H. and Tokunaga, E. High-performance ion-exchange chromatography of plasma proteins 266(1983)39
Tompkins, D.J., see Little, C.J. 264(1983)183
Tonelli, D., Gattavecchia, E. and Breccia, A. Simultaneous determination of some radiosensitizing and chemotherapeutic drugs in plasma by TLC 275(1983)223
Tonelli, D., see Amato, A. 270(1983)387
Tonelli, D., see Cavazzutti, C. 257(1983)166
Tonelli, D., see Cavazzutti, G. 268(1983)528
Tonelli, D., see Gattavecchia, E. 260(1983)517
Tong, H.Y., Sweetman, J.A. and Karasek, F.W. Quantitation of 1-nitropyrene in diesel exhaust particulates by capillary GC-MS and capillary GC 264(1983)231
Tønnesen, H.H. and Karlsen, J. HPLC of curcumin and related compounds 259(1983)367
Toren, E.C. Jr., Vacik, D.N. and Mockridge, P.B. Cation-exchange, HPLC determination of hemoglobin A_{1c} 266(1983)207
Torii, H., see Motohashi, M. 253(1982)129
Tortoreto, M., Catalani, P., Bianchi, M., Blonda, C., Pantarotto, C. and Paglialunga, S. Determination of 4,4'-diaminodiphenylmethane in blood by GLC with electron-capture detection 262(1983)367
Tosa, T., see Minobe, S. 262(1983)193
Tóth, G. Adsorption chromatographic separation of ^{125}I-labelled estriol and estriol-6-(O-carboxymethyl)oxime tyrosine methyl ester 267(1983)420
Toth-Martinez, B.L., Gál, S. and Kiss, L. Chromatofocusing for separation of β-lactamases. I. Microscale separation of RTEM- and chromosomally mediated β-lactamases of *Escherichia coli* J6-2 262(1983)373
Toth-Martinez, B.L. and Hernádi, F.J. TLC method for screening the hydrolysis of β-lactam esters. *In vitro* hydrolysis of benzylpenicillin-benzamidomethyl ester by non-specific serum esterases 264(1983)174
Toth-Martinez, B.L., see Gál, S. 264(1983)170
Toth-Martinez, B.L., see Kiss, L. 262(1983)379
Townsend, L.B., see Schroeder, W. III 254(1983)315
Tralongo, H., see Da, S.L. 268(1983)1
Trathnigg, B. and Jorde, C. Densimetric detection in GPC. VII. Calculation of molecular weight distributions using a programmable pocket calculator 259(1983)381
Trautschold, I., see Pingoud, V. 260(1983)439
Trautwein, E., see Erbersdobler, H.F. 254(1983)332
Traylor, T.D., Koontz, D.A. and Hogan, E.L. HPLC resolution of *p*-nitrobenzyloxyamine derivatives of brain gangliosides 272(1983)9
Treffner, E., see Marzo, A. 272(1983)95
Tremmel, F., see Keiser, J.E. 259(1983)186
Trézl, L., Bakó, P., Fenichel, L. and Rusznák, I. Detection of crown ethers by means of Dragendorff's reagent 269(1983)40
Trnovec, T., see Šoltés, L. 273(1983)213
Trojer, L. and Hansson, L. Quantitative determination of the degree of capping and structural investigation of octadecylsilane phases by means of pyrolysis in GC 262(1983)183
Tsarfin, Y.A., see Mokeyeva, R.N. 264(1983)272
Tsegenidis, T., see Hjerpe, A. 259(1983)334
Tseng, A., see Batley, M. 253(1982)124
Tserng, K.-Y., Danish, R.K. and Bendt, J.S. Rapid simultaneous assay of serum estrone, estradiol, and estriol in pregnant women using methyl ether acetate derivatives by capillary GC and electron-impact MS 272(1983)233
Tsuchiya, H., see Hayashi, T. 273(1983)245, 274(1983)318
Tsuchiya, Y., see Okamoto, Y. 254(1983)35
Tsuda, T. and Nakagawa, G. Open-tubular LC with 5-10-μm I.D. culumns 268(1983)369
Tsuda, T., Nomura, K. and Nakagawa, G. Separation of organic and metal ions by high-voltage capillary electrophoresis 264(1983)385
Tsuge, S., see Nakagawa, H. 260(1983)391
Tsuhako, M., see Motooka, I. 260(1983)377
Tsuji, A., see Kamada, S. 272(1983)29
Tsuji, A., see Kawasaki, T. 272(1983)261
Tsuji, K. and Binns, R.B. Micro-bore HPLC for the analysis of pharmaceutical compounds 253(1982)227
Tsuji, K., see Kawase, J. 252(1982)209, 253(1982)237, 262(1983)293, 262(1983)408, 264(1983)415, 267(1983)133, 267(1983)149
Tsukada, K., see Onoue, Y. 257(1983)373
Tsukida, K., see Ito, M. 253(1982)113
Tsumagari, N., see Shimizu, R. 253(1982)101
Tüdös, F., see Zsadon, B. 270(1983)127
Turánek, J., see Kovář, J. 258(1983)199
Turchi, G., see Citti, L. 261(1983)315
Turková, R., Tichá, M. and Kocourek, J. Studies on lectins. LIV. Affinity electrophoresis of lectins and trypsin on affinity gels prepared from Sephadex derivatives incorporated into a polyacrylamide gel matrix 257(1983)297
Turner, J.C. and Mahlberg, P.G. Simple HPLC method for separating acidic and neutral cannabinoids in *Cannabis sativa* L. 253(1982)295
Turner, R., see Lindblom, H. 266(1983)187, 273(1983)107
Turturro, A., Singh, N.P. and Hart, R.W. HPLC method for the separation of the halogenated pyrimidine 5-bromo-2'-

deoxyuridine from its metabolites 252(1982)335
Tvrzická, E., see Mareš, P. 273(1983)172
Tyler, G.A. and Rosenblatt, M.
Semi-preparative HPLC purification of a 28-amino acid synthetic parathyroid hormone antagonist 266(1983)313
Tzeng, M.-C., see Wu, S.-H. 259(1983)375

U

Uchiyama, M., see Uchiyama, S. 262(1983)340
Uchiyama, S. and Uchiyama, M.
TLC fluorometry of ethoxyquin using Triton X-100 262(1983)340
Uden, P.C., see Mazzo, D.J. 269(1983)11, 270(1983)191
Uemichi, Y., Ayame, A., Kashiwaya, Y. and Kanoh, H.
GC determination of the products of degradation of polyethylene over a silica-alumina catalyst 259(1983)69
Ueno, H., see Kawase, J. 252(1982)209, 253(1982)237, 264(1983)415
Umagat, H., see Kucera, P. 255(1983)563
Unadkat, J.D. and Rowland, M.
Pitfalls in assessing the radiopurity of tritiated steroids by HPLC 261(1983)298
Une, M., Nagai, F. and Hoshita, T.
HPLC separation of higher bile acids 257(1983)411
Unger, K.K., see Roumeliotis, P. 255(1983)51
Uno, K., see Oka, H. 260(1983)457
Uno, T., see Nakagawa, T. 254(1983)27
Ursini, F., Bonaldo, L., Maiorino, M. and Gregolin, C.
HPLC of hydroperoxy derivatives of stearoyllinoleoylphosphatidylcholine and of their enzymatic reduction products 270(1983)301
Usbeck, E., see Birkenmeier, G. 265(1983)27
Usbeck, E., see Kopperschläger, G. 259(1983)97
Utamura, T., see Koizumi, K. 265(1983)89
Utley, D.
Determination of 2-hydroxyiminomethyl-1-methylpyridinium methanesulphonate (pralidoxime mesylate, P2S) and its degradation products in solution by LC 265(1983)311
Utter, J., see Park, G.B. 273(1983)481
Uzaki, M. and Ishiwatari, R.
Determination of cellulose and non-cellulose carbohydrates in recent sediments by GC 260(1983)487

V

Vacik, D.N., see Toren, E.C. Jr. 266(1983)207
Vacík, J., see Svoboda, M. 273(1983)228
Vainiotalo, S., Pfäffli, P. and Zitting, A.
Sensitive LC method for the determination of formic acid in air samples 258(1983)207
Vajta, S., Le Moing, J.P. and Rovei, V.
GLC determination of toloxatone in human plasma. Routine analysis of a wide range of drug concentrations using a nitrogen-selective detector 274(1983)139
Valdez, J.G., see Gurley, L.R. 266(1983)609
Valeur, B., see Farinotti, R. 269(1983)81
Valkó, K. and Lopata, A.
Applicability of GLC in determining liquid-liquid partition data 252(1982)77
Valkó, K., see Papp, O. 252(1982)67
Vallette, F.M., Marsh, D.J., Muller, F., Massoulié, J., Marçot, B. and Viel, C.
Comparative affinity chromatography of acetylcholinesterases from five vertebrate species 257(1983)285
Vallin, P., see Masson, P. 273(1983)289
Valzelli, G., see Moro, E. 274(1983)281
Vámos, J., see Papp, O. 252(1982)67
Vámos, J., see Szász, G. 269(1983)91
Van Acker, M., see Van Langenhove, H. 257(1983)170
Van Amsterdam, J.G.C., Van Buuren, K.J.H., Dik, J. and Wynne, H.J.
Determination of Leu-enkephalin degradation by a soluble enzyme preparation from calf-brain striatum using reversed-phase HPLC 258(1983)165
Van Amsterdam, P.H., see Ruijten, H.M. 252(1982)193
Van Bockstaele, M., Dillen, L., Claeys, M. and De Potter, W.P.
Simultaneous determination of the three major monoamine metabolites in cerebrospinal fluid by HPLC with electrochemical detection 275(1983)11
Van Boekel, M.A.J.S. and Meeuwissen, C.A.J.M.
HPLC of the bis(dinitrophenyl)hydrazone derivative of ascorbic acid, applied to analysis of ascorbic acid in beer 261(1983)176
Van Brederode, J., see Van Genderen, H.H. 256(1983)151
Van Buuren, K.J.H., see Van Amsterdam, J.G.C. 258(1983)165
Van den Berg, J.H.M., see Deelder, R.S. 255(1983)545
Van der Kleijn, E., see Winogard, B. 275(1983)145
Van der Nat, J.M., see Van der Sluis, W.G. 259(1983)522
Van der Slik, W., see Keyzer, J.J. 275(1983)261
Van der Sluis, W.G., Van der Nat, J.M. and Labadie, R.P.

TLC bioassay of iridoid and secoiridoid glucosides with a fungitoxic aglucone moiety using β-glucosidase and the fungus *Penicillium expansum* as a test organism 259(1983)522
Van der Voet, H., see Overzet, F. 267(1983)329
Van der Wal, S. and Huber, J.F.K.
Separation of steroid conjugates by HPLC (Review) 251(1982)289
Van der Wal, S. and Snyder, L.R.
Photometric detection at 185 nm for HPLC with either isocratic or gradient elution. Assay of mixtures of polyethylene glycol oligomers 255(1983)463
Van der Zee, R., Welling-Wester, S. and Welling, G.W.
Purification of detergent-extracted Sendai virus proteins by reversed-phase HPLC 266(1983)577
Van Dijk, A., see Bots, A.M.B. 272(1983)421
Van Eikema Hommes, N.J.R., see Donkerbroek, J.J. 255(1983)581
Van Erp, P.E.J., see Feyen, J.H.M. 259(1983)338
Van Eyk, J., see Cachia, P.J. 266(1983)651
Van Genderen, H.H., Van Brederode, J. and Niemann, G.J.
Unexpected specificity of iodine-potassium iodide spray reagent for closely related flavones 256(1983)151
Van Hal, H.J.M., see Vink, J. 272(1983)87
Van Hoesel, Q.G.C.M., see Bots, A.M.B. 272(1983)421
Van Kreveld, M.E., see Tijssen, R. 260(1983)297
Van Laere, A.J., see Goossens, J.F. 267(1983)439
Van Lancker, M.A., Nelis, H.J.C.F. and De Leenheer, A.P.
Reversed-phase ion-pair chromatography of anthracyclines 254(1983)45
Van Langenhove, H., Van Acker, M. and Schamp, N.
Separation and determination of 2,4-dinitrophenyl thioethers by reversed-phase HPLC 257(1983)170
Van Miltenburg, J.C. and Hammers, W.E.
Transitions in chemically bonded organic phases on silica. Specific heat measurements by adiabatic calorimetry 268(1983)147
Van Oort, W.J., see Bots, A.M.B. 272(1983)421
Van Orden, D.E., see Clancey, C.J. 256(1983)335
Van Sumere, C.F., see Vande Casteele, K. 258(1983)111, 259(1983)291
Van Thiel, M., see Claessens, H.A. 275(1983)345
Vande Casteele, K., Geiger, H., De Loose, R. and Van Sumere, C.F.
Separation of some anthocyanidins, anthocyanins, proanthocyanidins and related substances by reversed-phase HPLC 259(1983)291
Vande Casteele, K., Geiger, H. and Van Sumere, C.F.
Separation of phenolics (benzoic acids, cinnamic acids, phenylacetic acids, quinic acid esters, benzaldehydes and acetophenones, miscellaneous phenolics) and coumarins by reversed-phase HPLC 258(1983)111
Vandongen, R., see Barden, A.E. 275(1983)229
Vaněk, Z., see Beran, M. 268(1983)315
Vanhee, P., see Verbeke, R. 265(1983)239
Varga-Puchony, Z. and Vigh, G.
Role of silanophilic retention in the reversed-phase chromatography of chloramphenicol intermediates 257(1983)380
Vargo, J.D., see Maskarinec, M.P. 261(1983)245
Vaskovsky, V.E. and Khotimchenko, S.V.
Micro-chromatographic test of transphosphatidylic activity of phospholipase D in algae and other plants 261(1983)324
Vass, S.W., see White, C.A. 264(1983)99
Vassilaros, D.L., Kong, R.C., Later, D.W. and Lee, M.L.
Linear retention index system for polycyclic aromatic compounds. Critical evaluation and additional indices 252(1982)1
Vatier, J., see Robert, J.C. 273(1983)275
Vaughan, G.N., see Sitaram, B.R. 275(1983)21
Veening, H., see Simpson, R.C. 261(1983)407
Veening, H., see Willeford, B.R. 251(1982)61
Veggeberg, S.K., see Davis, T.P. 273(1983)436
Vejrosta, J., Roth, M. and Novák, J.
Interference effects in trapping trace components from gases on chromatographic sorbents. Sorption of benzene in the presence of *o*-xylene 265(1983)215
Vejrosta, J., see Roth, M. 262(1983)305
Velthorst, N.H., see Donkerbroek, J.J. 255(1983)581
Venema, A., Kampstra, N. and Sukkel, J.T.
Investigation of the possible oxidation by ozone of organic substrates adsorbed on Tenax 269(1983)179
Venema, K., Leever, W., Bakker, J.O., Haayer, G. and Korf, J.
Automated precolumn derivatization device to determine neurotransmitter and other amino acids by reversed-phase HPLC 260(1983)371
Vensel, W.H., Fujita, V.S., Tarr, G.E., Margoliash, E. and Kayser, H.
Two-dimensional peptide mapping by reversed-phase column chromatography, applied to the sequence determination of cytochrome *c* from the wild type and a mutant of the butterfly, *Pieris brassicae* 266(1983)491
Verbalis, J.G.
Heterogeneity of human pituitary neurophysins by ampholyte displacement chromatography 254(1983)309
Verbeke, R. and Vanhee, P.
Sensitive and specific post-column fluorimetric determination of diethylstilboestrol residues in extracts of urine and animal tissues at the 1-ppb level 265(1983)239

Verbeke, R., see De Brabander, H.F. 252(1982)225
Vereczkey, L., see Klebovich, I. 273(1983)207
Vereczkey, L., see Kozma, M. 273(1983)223
Verghese, C., McLeod, A. and Shand, D. Rapid HPLC method for the measurement of atenolol in plasma UV detection 275(1983)367
Verghese, C., Smith, M.S., Aanonsen, L., Pritchett, E.L.C. and Shand, D.G. HPLC analysis of diltiazem and its metabolite in plasma 272(1983)149
Vergin, H., see Bishop-Freudling, G.B. 273(1983)453
Verheggen, T.P.E.M., Reijenga, J.C. and Everaerts, F.M. Isotachophoretic analyses of anions at high pH 260(1983)471
Verheggen, T.P.E.M., see Reijenga, J.C. 260(1983)241, 267(1983)75
Vermeer, E.A., see Schutjes, C.P.M. 253(1982)1
Vernon, F., see Haken, J.K. 267(1983)1
Verpoorte, R., Mulder-Krieger, T., Verzijl, M.J., Verzijl, J.M. and Baerheim Svendsen, A. HPLC of *Cinchona* alkaloids. I. Normal-phase HPLC 261(1983)172
Verweij, A.M.A. and De Bruyne, M.M.A. Heat-induced conversion of N-alkylaminobenzophenones into aminobenzophenones 270(1983)337
Verzele, M. and Delahaye, P. Analysis of tannic acids by HPLC 268(1983)469
Verzele, M. and Mussche, P. Monomeric and polymeric derivatization in reversed-phase HPLC materials 254(1983)117
Verzele, M., see Delahaye, P. 265(1983)363
Verzele, M., see Dewaele, C. 260(1983)13
Verzijl, J.M., see Verpoorte, R. 261(1983)172
Verzijl, M.J., see Verpoorte, R. 261(1983)172
Vessman, J., see Gyllenhaal, O. 273(1983)129
Vesterberg, O., see Breig, U. 274(1983)337
Vialle, J., see Da, S.L. 268(1983)1
Viau, A.C. and Karasek, F.W. Quantitative aspects in the determination of polychlorinated dibenzo-*p*-dioxins by high-resolution GC-MS 270(1983)235
Viau, A.C., see Karasek, F.W. 265(1983)79, 270(1983)227
Vickers, M.F. and Robinson, P.A. Protein titration curves using modified cellulose acetate membranes 275(1983)428
Viel, C., see Vallette, F.M. 257(1983)285
Vigh, G., see Bartha, A. 260(1983)337
Vigh, G., see Bartha, Á. 265(1983)171
Vigh, G., see Leitold, A. 257(1983)384
Vigh, G., see Papp, E. 259(1983)49
Vigh, G., see Varga-Puchony, Z. 257(1983)380
Vila, C.L., see Asmus, P.A. 264(1983)241
Villén, T. and Petters, I. Analysis of barbiturates in plasma and urine using GC without prior derivatization 258(1983)267
Vink, J., Van Hal, H.J.M., Pognat, J.-F. and Bouquet des Chaux, J.-L. Determination of the anti-ischaemic drug bepridil in human plasma using GC with nitrogen-sensitive detection 272(1983)87
Visconti, A. and Palmisano, F. Interference in the GC determination of deoxynivalenol in cultures of *Fusarium solani* on corn 252(1982)305
Visser, J., Grasmeijer, G. and Moolenaar, F. Determination of therapeutic concentrations of codeine by HPLC 274(1983)372
Vitali, P., see Concialini, V. 258(1983)244
Viville, R., Scarso, A., Durieux, J.P. and Loffet, A. Side reaction of synthetic peptides during their purification by preparative HPLC using formate buffers 262(1983)411
Vlachogiannis, G., see Holding, S.R. 261(1983)33
Vodička, L., Burda, J. and Kříž, J. HPLC of halogeno derivatives of adamantane and diamantane 270(1983)199
Vodička, L., see Punčochářová, J. 267(1983)222
Vodrážka, Z., see Dyr, J.E. 261(1983)163
Vodrážka, Z., see Fořtová, H. 259(1983)473, 260(1983)522
Voelter, W., see Kuhnz, W. 272(1983)333
Voet, H. van der, see Van der Voet, H. 267(1983)329
Voituriez, L., see Cadet, J. 259(1983)111
Vokoun, J., see Řezanka, T. 268(1983)71
Volkov, S.A., see Yeroshenkova, G.V. 262(1983)19
Von Stetten, O. and Schlett, R. Purification of ^{125}I-labelled compounds by HPLC with on-line detection 254(1983)229
Von Wright, A., see Suortti, T. 255(1983)529
Votavová, E., see Hradil, J. 259(1983)269
Vouros, P., Lankmayr, E.P., Hayes, M.J., Karger, B.L. and McGuire, J.M. New approaches to on-line ion-pair extraction and derivatization for HPLC-MS 251(1982)175
Vouros, P., see Maksoud, H.M. 274(1983)149
Vowinkel, E., see Mentlein, R. 268(1983)138
Vozka, S., see Vrátný, P. 254(1983)143
Vrátný, P., Čoupek, J., Vozka, S. and Hostomská, Z. Accelerated reversed-phase chromatography of carbohydrate oligomers 254(1983)143
Vrátný, P., Mikeš, O., Štrop, P., Čoupek, J., Rexová-Benková, L. and Chadimová, D. High-performance anion-exchange chromatography of organic acids 257(1983)23
Vries, G. de, see De Vries, G. 258(1983)43, 265(1983)105
Vries, J.X. de, see De Vries, J.X. 261(1983)287
Vries, K. de, see De Vries, K. 275(1983)261
Vuorinen, T., see Hyppänen, T. 261(1983)320

W

Wacker, T., see Welte, W. 259(1983)341
Wade, C.P.
Preparation of whole-fiber cotton gel-filtration chromatography columns 268(1983)187
Wagener, D.J.T., see Winogard, B. 275(1983)145
Wahlström, L., see Fägerstam, L.G. 266(1983)523
Wainer, I.W., Brunner, C.A. and Doyle, T.D.
Direct resolution of enantiomers via TLC using a chiral adsorbent 264(1983)154
Wainer, I.W. and Doyle, T.D.
Application of HPLC chiral stationary phases to pharmaceutical analysis. Direct enantiomeric resolution of amide derivatives of 1-phenyl-2-aminopropane 259(1983)465
Wainer, I.W., Doyle, T.D., Hamidzadeh, Z. and Aldridge, M.
Application of HPLC chiral stationary phases to pharmaceutical analysis. Resolution of ephedrine 261(1983)123
Wainer, I.W., Doyle, T.D., Hamidzadeh, Z. and Aldridge, M.
Resolution of norephedrine as its 2-oxazolidone derivative: enantiomeric separation on a chiral HPLC stationary phase and preparative regeneration of the resolved isomers 268(1983)107
Wainwright, M.S. and Haken, J.K.
Effective carbon number of methane in GC 256(1983)193
Wainwright, M.S., see Haken, J.K. 257(1983)107
Wainwright, M.S., see Latif, S. 258(1983)228, 258(1983)233
Waisser, K., see Dadáková, K. 254(1983)277
Wal, S. van der, see Van der Wal, S. 251(1982)289, 255(1983)463
Walker, M.A., see Dumbroff, E.B. 256(1983)439
Wall, J.H. and Lillehoj, E.B.
HPLC separation of xanthomegnin and viomellein 268(1983)461
Walle, T., see Kuye, J.O. 272(1983)307
Wallwork, M.A., see Shepherd, M.J. 261(1983)213
Walsh, D.L., see Moodie, I.M. 261(1983)146
Walsh, K., see Soderling, T.R. 253(1982)243
Walters, R.R., see Crowley, S.C. 266(1983)157
Walters, S.M.
Preliminary evaluation of HPLC with photoconductivity detection for the determination of selected pesticides as potential food contaminants 259(1983)227
Wang, C., Frank, H., Wang, G., Zhou, L., Bayer, E. and Lu, P.
Determination of amino acid enantiomers by two-column GC with valveless column switching 262(1983)352
Wang, G., see Wang, C. 262(1983)352
Wang, K.-T., see Syu, W.-J. 262(1983)346
Wännman, T., see Buijten, J. 268(1983)387
Wännman, T., see Markides, K. 254(1983)53, 267(1983)29
Wardencki, W., see Zygmunt, B. 265(1983)136
Wasiak, W. and Szczepaniak, W.
GC study of chemically bonded polymetallophenylsiloxanes 257(1983)13
Watabe, S., Hashimoto, K. and Takamatsu, T.
Separation of myosin light chains by high-speed gel filtration on TSK-GEL SW columns 260(1983)210
Watanabe, C., see Oshima, R. 259(1983)159
Watanabe, N.
Enantiomeric resolution of amino acids by high-performance ligand-exchange chromatography using histidine-bonded silica gel 260(1983)75
Watanabe, S., see Yamaguchi, Y. 273(1983)87
Watts, K.L., see Davis, T.P. 273(1983)436
Webber, B.B., see Lam, H. 269(1983)119
Weber, G., see Braumann, T. 261(1983)329
Webster, L.T. Jr., see Xiao, S.-H. 275(1983)127
Wegscheider, W., see Otto, M. 258(1983)11
Wehling, R.L. and Wetzel, D.L.
HPLC determination of low level uric acid in grains and cereal products as a measure of insect infestation 269(1983)191
Wehr, C.T., see Williams, R.R. 266(1983)179
Weight, G.J., see Pauls, R.E. 254(1983)171
Weir, D.E., see Hoppel, C.L. 272(1983)43
Weitzmann, C.J., see Kerlavage, A.R. 266(1983)225
Welinder, B.S., Linde, S. and Brush, J.S.
Separation of the monoiodinated isomers of insulin by HPLC 257(1983)162
Welinder, B.S., Linde, S. and Hansen, B.
Separation, isolation and characterization of the four monoiodinated insulin tracers using reversed-phase HPLC 265(1983)301
Welling, G.W., Groen, G. and Welling-Wester, S.
Isolation of Sendai virus F protein by anion-exchange HPLC in the presence of Triton X-100 266(1983)629
Welling, G.W., see Van der Zee, R. 266(1983)577
Welling-Wester, S., see Van der Zee, R. 266(1983)577
Welling-Wester, S., see Welling, G.W. 266(1983)629
Wells, G.
Comparison of optimized GC detectors for packed and capillary columns 270(1983)135
Wells, G. and Simon, R.
Thermal conductivity detector: theory and numerical model 256(1983)1
Welsch, T. and Frank, H.
Characterization of a new dehydroxylated reversed-phase material 267(1983)39
Welscher, T.M., see Chang, S.F. 272(1983)341
Welte, W., Hüdig, H., Wacker, T. and Kreutz, W.
Chromatofocusing as a simple method of purification of two bacterial photosynthetic proteins: cytochrome c_2 and reaction

centre of *Rhodopseudomonas viridis* 259(1983)341
Werkhoven-Goewie, C.E., De Ruiter, C., Brinkman, U.A.T., Frei, R.W., De Jong, G.J., Little, C.J. and Stahel, O. Automated determination of drugs in blood samples after enzymatic hydrolysis using precolumn switching and post-column reaction detection 255(1983)79
Werkhoven-Goewie, C.E., see Little, C.J. 264(1983)183
Werries, E., see Nebinger, P. 265(1983)19
Weston, G.D., see Blakesley, D. 258(1983)155
Westra, P., see Claessens, H.A. 275(1983)345
Westwood, S.A., see Alcock, N.J. 251(1982)165
Wetzel, D.L., see Wehling, R.L. 269(1983)191
Wetzel, E. and Kuster, T. Construction of a GC-MS interface using a fused-silica transfer line 268(1983)177
Wheals, B.B. Multiple column and detector approach to anion screening by isocratic HPLC 262(1983)61
Whelpton, R. Analysis of plasma physostigmine concentrations by LC 272(1983)216
Whitaker, J.N., see Gilliom, R.D. 254(1983)211
White, C.A., Vass, S.W., Kennedy, J.F. and Large, D.G. Analysis of phenyldimethylsilyl derivatives of monosaccharides and their role in HPLC of carbohydrates 264(1983)99
White, E.V., see Christensen, R.G. 271(1983)61
White, M.W. HPLC of tyrosine-related peptides with electrochemical detection 262(1983)420
White, P.C., Jane, I., Scott, A. and Connett, B.E. Use of HPLC to quantitate the opiate and sugar content of illicit heroin preparations 265(1983)293
White, S.M., see Farid, N.A. 275(1983)458
Whitehouse, M.W., see Miners, J.O. 275(1983)89
Wieczorek, M., see Wilimowska-Pelc, A. 269(1983)22
Wiehle, R.D., see Hutchens, T.W. 266(1983)115
Wightman, F., see Camirand, A. 267(1983)443
Wightman, R.M., see Caudill, W.L. 261(1983)415
Wilcken, B., see Hocart, C.H. 275(1983)237
Wilimowska-Pelc, A., Wieczorek, M., Otlewski, J., Leluk, J. and Wilusz, T. Immobilized Bowman-Birk inhibitor for selective isolation of chymotrypsin B from bovine pancreas 269(1983)22
Willeford, B.R. and Veening, H. HPLC: applications to organometallic and metal coordination compounds (Review) 251(1982)61
Willey, K.A., see Frank, B.H. 266(1983)239
Williams, A., see Partis, M.D. 259(1983)189
Williams, R.F., Aivaliotis, M.J., Barnes, L.D. and Robinson, A.K. HPLC application of the Hummel and Dreyer method for the determination of colchicine-tubulin binding parameters 266(1983)141
Williams, R.R., Wehr, C.T., Rogers, T.J. and Bennett, R.W. HPLC of staphylococcal enterotoxin B 266(1983)179
Wills, R.B.H., see Tangendjaja, B. 265(1983)143
Wills, R.B.H., see Wimalasiri, P. 256(1983)368
Wilson, C., see Bristow, A.F. 270(1983)285
Wilson, J.B., see Lam, H. 269(1983)119
Wilson, J.B., see Nakatsuji, T. 259(1983)511
Wilson, M.J., see Kuye, J.O. 272(1983)307
Wilson, T.D. Potential *in situ* regeneration of octadecyl-silica columns 253(1982)260
Wilusz, T., see Wilimowska-Pelc, A. 269(1983)22
Wimalasiri, P. and Wills, R.B.H. Simultaneous analysis of ascorbic acid and dehydroascorbic acid in fruit and vegetables by HPLC 256(1983)368
Wing, T.-Y., see Darney, K.J. Jr. 257(1983)81
Wingender, W. HPLC method for the quantitative analysis of a synthetic copolymer with antitumor activity (copovithane) and methylamine in human blood plasma and urine 273(1983)319
Winogard, B., Oosterbaan, M.J.M., Van der Kleijn, E., Liskamp, R.M.J., Ottenheijm, H.C.J. and Wagener, D.J.T. Determination of sparsomycin in plasma and urine of the dog by means of reversed-phase HPLC and first pharmacokinetic results 275(1983)145
Winspear, M.J. and Oaks, A. Automated pre-column amino acid analyses by reversed-phase HPLC 270(1983)378
Wintzerith, M., see Popović, D.A. 268(1983)285
Winzer, W., see Echols, R.E. 262(1983)257
Wisneski, H.H., Yates, R.L. and Davis, H.M. HPLC-fluorometric determination of safrole in perfume, cologne and toilet water 255(1983)455
Witkiewicz, Z. Liquid-crystalline stationary phases for GC (Review) 251(1982)311
Witkiewicz, Z., see Szulc, J. 262(1983)141, 262(1983)161
Wittliff, J.L., see Hutchens, T.W. 266(1983)115
Wittliff, J.L., see Lonsdorfer, M. 266(1983)129
Wittmann-Liebold, B., see Reinbolt, J. 259(1983)121
Woestenborghs, R., see Okonkwo, P.O. 272(1983)411
Wójcik, W., see Sadowski, R. 262(1983)455
Wolf, W.A. and Kuhn, D.M. Simultaneous determination of 5-hydroxytryptamine, its amino acid precursors and acid metabolite in discrete brain regions by HPLC with fluorescence detection 275(1983)1
Wolhoff, H., see Sistovaris, N. 274(1983)289
Wolthers, B.G., see Keyzer, J.J. 275(1983)261
Wong, C.O., see Hocart, C.H. 275(1983)237
Wong, H.-Y., see Alcock, N.J. 251(1982)165

Wong, J.L. and Gladstone, C.M.
Compositional analysis of an H-Coal liquid by GC-MS-computer technique 267(1983)303
Woo, S.-O., see Dutt, M.C. 267(1983)117
Wood, R. and Lee, T.
HPLC of fatty acids: quantitative analysis of saturated, monoenoic, polyenoic and geometrical isomers 254(1983)237
Woodruff, S.D. and Yeung, E.S.
Sequential differential detection in LC 260(1983)363
Woodward, A., see Maddock, J. 272(1983)129
Woolf, J.H., Nichol, C.A. and Duch, D.S.
Determination of biopterin and other pterins in tissues and body fluids by HPLC 274(1983)398
Wootton, M., see Kok, S.H. 260(1983)189
Worobey, B.L.
Simplified heptafluorobutyrylation on linuron and its metabolite 3,4-dichloroaniline 262(1983)328
Wóycikowski, J., see Sybilska, D. 253(1982)95
Wright, A. von, see Von Wright, A. 255(1983)529
Wroński, M.
Electrophoresis of thiols in cellulose gels. II. Application of cellulose gel membranes 261(1983)127
Wu, H.-L., Chen, S.-H., Lin, S.-J., Hwang, W.-R., Funazo, K., Tanaka, M. and Shono, T.
GC determination of inorganic anions as pentafluorobenzyl derivatives 269(1983)183
Wu, S.-H., Chang, F.-H. and Tzeng, M.-C.
Separation of the subunits of crotoxin by HPLC 259(1983)375
Wu, S.-H., see Syu, W.-J. 262(1983)346
Wünsche, C., see Gau, W. 262(1983)277
Wurz, E., see Gleispach, H. 273(1983)161, 273(1983)166
Wynne, H.J., see Van Amsterdam, J.G.C. 258(1983)165

X

Xiao, S.-H., Catto, B.A. and Webster, L.T. Jr.
Quantitative determination of praziquantel in serum by HPLC 275(1983)127
Xie, K.-H., see Krull, I.S. 260(1983)347

Y

Yacobi, A., see Sum, C.Y. 254(1983)187
Yagi, T., see Hirokawa, T. 271(1983)D1
Yamada, K., see Kuwata, K. 256(1983)303
Yamada, K., see Niwa, H. 257(1983)146
Yamagishi, A.
Clay CC for optical resolution of tris(chelated) and bis(chelated) complexes on a Λ-Ru(1,10-phenanthroline$_3^{2+}$-montmorillonite column 262(1983)41
Yamaguchi, F., see Tanaka, K. 265(1983)374
Yamaguchi, M., see Kai, M. 268(1983)417
Yamaguchi, S., see Kudoh, M. 260(1983)483
Yamaguchi, Y., Seki, T., Watanabe, S., Hayashi, C. and Miyai, K.
Simple enzymatic detection method for urinary sulfated 7α-hydroxy bile acids in normal subjects and in patients with acute hepatitis 273(1983)87
Yamamoto. N., see Niwa, T. 272(1983)227
Yamanaka, Y., see Mizuno, N. 264(1983)159
Yamane, T., see Ito, M. 253(1982)113
Yamasaki, H., see Kuwata, K. 256(1983)303
Yamauchi, M., see Banes, A.J. 272(1983)366
Yamazaki, M., see Fujii, Y. 258(1983)147
Yamazaki, Y., see Kuwata, K. 256(1983)303
Yamskov, I.A., see Berezin, B.B. 261(1983)301
Yaneva, J., see Ivanov, I. 260(1983)177
Yang, R.K., see Hsieh, J.Y.K. 274(1983)388
Yarnitzky, C., see Hershcovitz, H. 252(1982)113
Yashima, k., see Kawase, J. 267(1983)133
Yashin, Y.I.
Selectivity in liquid adsorption chromatography (Review) 251(1982)269
Yashin, Y.I., see Makarenko, N.P. 257(1983)59
Yashiro, T., see Aoyama, T. 265(1983)45, 265(1983)57, 265(1983)69
Yasuda, Y., see Kawase, J. 267(1983)133, 267(1983)149
Yasuhira, K., see Hashimoto, K. 260(1983)429
Yates, R.L., see Wisneski, H.H. 255(1983)455
Yau, W.W., see Kirkland, J.J. 255(1983)255
Yazawa, K. and Tamura, Z.
Post-column oxidation of reduced biopterins for fluorescence detection 254(1983)327
Yeh, T.-L., see Lee, K.-S. 260(1983)97
Yergey, J., see Fenselau, C. 271(1983)3
Yeroshenkova, G.V., Volkov, S.A. and Sakodynskii, K.I.
Effect of packing irregularities along the bed length 262(1983)19
Yeung, E.S., see Kuo, J.C. 253(1982)199
Yeung, E.S., see Woodruff, S.D. 260(1983)363
Yinon, J. and Hwang, D.-G.
HPLC-MS of explosives 268(1983)45
Yokoyama, M., see Niwa, T. 272(1983)227
Yoshida, K., see Miyazaki, H. 274(1983)75
Yoshida, T., see Tanaka, E. 272(1983)380
Yoshikawa, M., see Kodama, Y. 261(1983)103
Yoshikawa, S., see Karasawa, A. 260(1983)513

Yoshimura, T., see Aoyagi, S. 253(1982)133
Young, R.M., see Chang, T. 274(1983)346
Yu, T.-H. and Arakawa, Y.
HPLC determination of dialkyltin homologues using fluorescence detection 258(1983)189
Yüksel, K.Ü., see Oray, B. 265(1983)126
Yun, Z., see Colin, H. 255(1983)295

Z

Zagarese, V., see Amato, A. 270(1983)387
Zagarese, V., see Cavazzutti, G. 268(1983)528
Zahn, H., see Strüssmann, A. 268(1983)306
Zakaria, M. and Brown, P.R.
Stationary phase effects on the reversed-phase LC retention behavior of purine and pyrimidine compounds 255(1983)151
Zakaria, M., Gonnord, M.-F. and Guiochon, G.
Applications of two-dimensional TLC (Review) 271(1983)127
Zakaria, M., see Guiochon, G. 255(1983)415
Zamponi, C., see Matarese, R.M. 273(1983)398
Zaslavsky, B.Y., Mestechkina, N.M., Miheeva, L.M. and Rogozhin, S.V.
Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. III. Features of solutes and biological particles detected by the partition technique 256(1983)49
Zaslavsky, B.Y., Mestechkina, N.M. and Rogozhin, S.V.
Characteristics of protein-aqueous medium interactions measured by partition in aqueous Ficoll-Dextran biphasic system 260(1983)329
Zaslavsky, B.Y., Miheeva, L.M., Mestechkina, N.M. and Rogozhin, S.V.
Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. I. Effect of ionic composition on the relative hydrophobicity of the phases 253(1982)139
Zaslavsky, B.Y., Miheeva, L.M., Mestechkina, N.M. and Rogozhin, S.V.
Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. II. Effect of ionic composition on the hydration properties of the phases 253(1982)149
Zecca, L., Bonini, L. and Bareggi, S.R.
Determination of dihydroergocristine and dihydroergotamine in plasma by HPLC with fluorescence detection 272(1983)401
Zech, K., see Kuhnz, W. 272(1983)333
Zee, R. van der, see Van der Zee, R. 266(1983)577
Zeeuw, R.A. de, see De Zeeuw, R.A. 267(1983)329, 274(1983)239
Zelenská, V., see Kaniansky, D. 256(1983)126
Zelenský, I., see Kaniansky, D. 256(1983)126
Zhou, L., see Wang, C. 262(1983)352
Zhu, Z.T., see Fox, A. 256(1983)429
Zienius, R.H., see Haniff, I.M. 264(1983)33
Zimina, T.M., see Maltsev, V.G. 273(1983)95
Zio, C., see Pietta, P. 260(1983)497
Ziołek, A., see Szulc, J. 262(1983)161
Zitting, A., see Vainiotalo, S. 258(1983)207
Zolotarev, Y.A. and Myasoedov, N.F.
Effect of the skeletal structure of sorbents containing L-hydroxyproline groups on enantioselectivity in ligand-exchange chromatography of amino acid racemates 264(1983)377
Zonta, F., see Stancher, B. 256(1983)93
Zou, G., see Goto, M. 268(1983)157, 275(1983)271
Zsadon, B., Décsei, L., Szilasi, M., Tüdös, F. and Szejtli, J.
Inclusion chromatography of enantiomers of indole alkaloids on a cyclodextrin polymer stationary phase 270(1983)127
Zuzok, A., see Köster, J. 270(1983)392
Zygmunt, B., Wardencki, W. and Staszewski, R.
GC identification of thiols in the naphtha cut from Libyan crude oil 265(1983)136

SUBJECT INDEX

VOLUMES 251—275

A

Abscisic acid
Choice of methods for the determination of abscisic acid in plant tissue 256(1983)439

Acenocoumarin
Analysis of acenocoumarin and its amino and acetamido metabolites in body fluids by HPLC 274(1983)231

Acetaldehyde
Analytical study of low-concentration gases. II. Collection of acetaldehyde at low concentrations in air in a solid reaction tube and its analysis using a flame thermionic detector 265(1983)45

Acetanilides
Correlation of pK_{BH+} of acetanilides with LC behaviour 267(1983)399

Acetates
GC and GC-MS studies of acetate esters of chlorinated phenols 256(1983)135

GC of homologous esters. XX. Capillary column studies of alkyl acetates, chloroacetates, dichloroacetates and trichloroacetates 256(1983)221

Acetic acid
LC determination of acetic acid trapped in charcoal tubes 254(1983)171

Acetone
Solution and adsorption thermodynamics in propylene glycol by GC. A comparative study with other polyhydroxylated solvents 259(1983)413

Use of various organic modifiers in TLC on chemically bonded phases 265(1983)105

GC determination of acetone in hydroxyethyl starches 269(1983)28

Acetophenones
Separation of phenols, phenolic aldehydes, ketones and acids by HPLC 252(1982)167

Separation of phenolics (benzoic acids, cinnamic acids, phenylacetic acids, quinic acid esters, benzaldehydes and acetophenones, miscellaneous phenolics) and coumarins by reversed-phase HPLC 258(1983)111

Investigation of the possible oxidation by ozone of organic substrates adsorbed on Tenax 269(1983)179

N-Acetylamino sugars
Determination of neutral, amino and N-acetyl amino sugars as alditol benzoates by LSC 265(1983)335

Acetyl cellulose
Extremely low electrophoretic mobility of picric acid in acetyl cellulose paper 252(1982)301

Acetylcholinesterase
Affinity chromatography of acetylcholinesterase from *Electrophorus electricus* electroplax. Investigations of 9-aminoalkylacridine affinity ligands 257(1983)275

Comparative affinity chromatography of acetylcholinesterases from five vertebrate species 257(1983)285

N-Acetylneuraminate lyase
Analysis of sialic acids by GC of the mannosamine derivatives released by the action of N-acetylneuraminate lyase 272(1983)1

Acetylsalicylic acid
Determination of acetylsalicylic acid and metabolites in biological fluids by HPLC 272(1983)325

Acetylspermidine
Analysis of polyamines and acetyl derivatives by a single automated amino acid analyzer technique 273(1983)263

N^4-Acetyl sulphamethoxazole
Determination of trimethoprim, sulphamethoxazole and its N^4-acetyl metabolite in biological fluids by HPLC 274(1983)187

N-Acetyl-L-valine-*tert.*-butylamide
Chiroselective complexation based on hydrogen bonds for the resolution of D- and L-amino acid derivatives by silica gel LC 267(1983)11

α-Acid
Separation of α, β- and iso-α-acids in hop products and beer by HPLC 262(1983)448

β-Acid
Separation of α, β- and iso-α-acids in hop products and beer by HPLC 262(1983)448

Acid chlorides
HPLC analysis of acid chlorides by pre-derivatization 268(1983)102

Acid dissociation constants
Isotachophoretic determination of mobility and pK_a by means of computer simulation. I. Estimation of accuracy of the evaluated constants 252(1982)33

Isotachophoretic determination of mobility and pK_a by means of computer simulation. II. Evaluation of m_o and pK_a of 65 anions 252(1982)49

α_1-Acid glycoprotein
Direct LC resolution of racemic drugs using α_1-acid glycoprotein as the chiral stationary phase 269(1983)71

Acid strength distribution
GC adsorption-desorption techniques for measuring acid strength distribution on solid catalysts 268(1983)207

Acridine
Detection of acridine in human urine after topical coal-tar treatment 273(1983)202

Acrylonitrile
Rapid determination of acrylonitrile in water and acetonitrile by HPLC 267(1983)232

Active carbons
GSC characterization of active carbons 259(1983)433

Activity coefficients
Utilization of the solution-of-groups concept in GLC 258(1983)23

Mixed solvents in GLC. Activity coefficients for diethyl ether in squalane and dinonyl phthalate mixtures at 303°K 262(1983)33

0-Acyl alcohols
GC separation of enantiomers of 0-acyl alcohols 256(1983)154

Adamantane
HPLC of halogeno derivatives of adamantane and diamantane 270(1983)199

Adenine
Isotachophoretic analyses of anions at high pH 260(1983)471

Simple separation of adenine and adenosyl-sulfur compounds by HPLC 264(1983)321

Determination of adenine, adenosine and related nucleotides at the low picomole level by reversed-phase HPLC with fluorescence detection 275(1983)178

Adenine nucleotides
Improved method for high energy nucleotide analysis of canine cardiac muscle using reversed-phase HPLC 275(1983)411

Adenosine
Determination of adenine, adenosine and related nucleotides at the low picomole level by reversed-phase HPLC with fluorescence detection 275(1983)178

Adenosyl-sulphur compounds
Simple separation of adenine and adenosyl-sulfur compounds by HPLC 264(1983)321

Adipates
Separation of alditol acetates from plasticizers and other contaminants by capillary GC 262(1983)249

Adiphenine
Determination of adiphenine, diphenylacetic acid and diethylaminoethanol by HPLC 257(1983)395

Adrenaline
Sensitive and specific radioenzymatic assay for norepinephrine, epinephrine and dopamine based on the TLC separation of their Dns-O-methyl derivatives 254(1983)257

Use of HPLC to study the caeruloplasmin-catalysed oxidation of biogenic amines. I. Single substrate systems 256(1983)71

Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

Use of HPLC to study the caeruloplasmin-catalysed oxidation of biogenic amines. II. Multiple substrate systems 257(1983)53

Postcolumn derivatization of catecholamines with 2-cyanoacetamide for fluorimetric monitoring in HPLC 274(1983)45

Adriamycin
Reversed-phase ion-pair chromatography of anthracyclines 254(1983)45

Analysis of adriamycin and adriamycinol in micro volumes of rat plasma 272(1983)421

Adriamycinol
Analysis of adriamycin and adriamycinol in micro volumes of rat plasma 272(1983)421

Adsorbate delocalization
Mobile phase effects in LSC. Importance of adsorption-site geometry, adsorbate delocalization and hydrogen bonding 255(1983)3

Adsorbents
Characterization of modified alumina as an adsorbent for GSC. Salt loading dependence of

retention volume on modified alumina adsorbent coated with potassium carbonate 253(1982)205

Poly(ethylene glycol)- and poly(vinyl alcohol)-substituted carbohydrate gels for "mild" hydrophobic chromatography 254(1983)83

Mobile phase effects in LSC. Importance of adsorption-site geometry, adsorbate delocalization and hydrogen bonding 255(1983)3

Influence of thermal pre-treatment on adsorption properties of porous polymer air samplers 267(1983)91

Adsorption
Solution and adsorption thermodynamics in propylene glycol by GC. A comparative study with other polyhydroxylated solvents 259(1983)413

Adsorption capacity
Adsorption capacity and surface area measurements in HPLC on dynamically modified silica 260(1983)156

Adsorption isotherms
Adsorption of *n*-butane and 1,3-butadiene on cross-linked polystyrene 256(1983)213

Studies in reversed-phase ion-pair chromatography. I. Adsorption isotherms of tetraalkylammonium ion-pair reagents on LiChrosorb RP-18 in methanol-water eluents 260(1983)337

Influence of water in LSC systems on retention data. I. Adsorption isotherms of the interface of class N solvents and silica gels 262(1983)1

Adsorption-site geometry
Mobile phase effects in LSC. Importance of adsorption-site geometry, adsorbate delocalization and hydrogen bonding 255(1983)3

AD-022
Determination of the biological response modifier MVE-2 (AD-022) in biological fluids by HPLC 272(1983)200

Affinity partitioning
Application of affinity partitioning in an aqueous two-phase system to the investigation of triazine dye-enzyme interactions 259(1983)97

Aflatoxins
Rapid determination of aflatoxin M1 in milk and dairy products by HPLC 259(1983)372

Comparison of three methods for the extraction of aflatoxins from human serum in combination with a HPLC assay 273(1983)442

HPLC of aflatoxins in human urine 275(1983)387

Agarose
Analysis of structural cell proteins by isoelectric focusing in zwitterionic agarose gel thin layers 268(1983)79

Agmatine
Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

Air particulate matter
Evaluation of a Teflon block extraction procedure for determination of organic material in air particulate matter 269(1983)161

Air-segmentation reactor
Post-column air-segmentation reactor for the fluorometric detection of reserpine by LC 252(1982)288

β-Alanine surfactants
Analysis of amphoteric surfactants by LC with post-column detection. I. Mono- and dialanine type surfactants 264(1983)415

Albumin
Comparison between binding analyses performed by equilibrium dialysis and partitioning in aqueous two-phase systems exemplified by the binding of Cibacron Blue to serum albumin 252(1982)159

Poly(ethylene glycol)- and poly(vinyl alcohol)-substituted carbohydrate gels for "mild" hydrophobic chromatography 254(1983)83

Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. III. Features of solutes and biological particles detected by the partition technique 256(1983)49

Characteristics of protein-aqueous medium interactions measured by partition in aqueous Ficoll-Dextran biphasic system 260(1983)329

Triazine dye binding of human α-fetoprotein and albumin 265(1983)27

Determination of polymer and purification of albumin by HPLC 266(1983)105

Alcohols
Thermochemical investigations of GLC. II. Partition coefficients of alcohol solutes on binary solvent mixtures of inert hydrocarbons 257(1983)189

Post mortem brain alcohol levels 259(1983)353

Comparison of three derivatives for the enantiomeric separation of chiral alcohols and the absolute configuration of *Myrmica* ant 3-octanol 260(1983)411

Reversed-phase LC separation and quantification of mixtures of fatty alcohols and esters in hydrocarbon bases 262(1983)397

GLC analyses. XVII. Separation of a mixture of primary C_1-C_{18} straight-chain alcohols and their propanoyl, 2-chloropropanoyl and 3-

chloropropanoyl derivatives on SE-30 and OV-351 capillary columns with temperature programming 268(1983)229

GLC analyses. XVIII. Separation of aliphatic C_1-C_{18} *n*-alkyl esters of butanoic, 2-chlorobutanoic, 3-chlorobutanoic and 4-chlorobutanoic acids with the corresponding alcohols 268(1983)437

GLC analyses. XIX. Branched-chain alcohols and their propanoyl, monochloropropanoyl, butanoyl and monochlorobutanoyl derivatives 270(1983)171

GLC analyses. XX. Unsaturated alcohols and the corresponding esters of propanoic and butanoic acids and their monochlorinated derivatives 270(1983)181

GLC-frequency pulse-modulated electron-capture detection in the diagnosis of infectious diseases 274(1983)1

Aldehydes
Trace analysis of aldehydes by reversed-phase HPLC and precolumn fluorigenic labeling with 5,5-dimethyl-1,3-cyclohexanedione 256(1983)243

Analysis of phenolic acids and aldehydes by HPLC: a comparative analysis of high mountain soils and their vegetation (in French) 259(1983)319

Effect of support characteristics on the determination of the lipophilicity of some neutral, acidic and alkaline compounds by reversed-phase TLC 270(1983)97

Analysis of organics in the environment by functional group using a triple quadrupole mass spectrometer 271(1983)93

Aldicarb
Rapid two-step preconcentration procedure for Aldicarb determination in water by HPLC using a 254-nm detector 253(1982)289

Alditol acetates
Analysis of synthetic mixtures of partially methylated alditol acetates by capillary GC, GC-electron impact MS and GC-chemical ionization MS 253(1982)55

Detection of neutral and aminosugars from glycoproteins and polysaccharides as their alditol acetates 256(1983)419

Capillary GC analysis of alditol acetates of neutral and amino sugars in bacterial cell walls 256(1983)429

Separation of alditol acetates from plasticizers and other contaminants by capillary GC 262(1983)249

Alditol benzoates
Determination of neutral, amino and N-acetyl amino sugars as alditol benzoates by LSC 265(1983)335

Alditols
Analysis of phenyldimethylsilyl derivatives of monosaccharides and their role in HPLC of carbohydrates 264(1983)99

Alginates
Determination of the uronic acid composition of alginates by HPLC 264(1983)137

Alginic acid
Urea-polyacrylamide gel electrophoresis of alginic acid 264(1983)479

Alkaline phosphatase
Rapid preparation and purification of alkaline phosphatase and ^{125}I-labeled antibody by minicolumn gel centrifugation chromatography 254(1983)219

Alkaloids
LC-MS in the pharmaceutical industry: objectives and needs 251(1982)141

HPLC separation of alkaloids from *Papaver somniferum* on a Zorbax NH_2 analytical column 253(1982)120

Separation and determination of macrocyclic pyrrolizidine alkaloids of the otonecine type present in the edible plant *Petasites japonicus* by reversed-phase HPLC 257(1983)146

Advances in fused-silica column technology for the analysis of underivatized drugs 257(1983)211

HPLC determination of vasicine and vasicinone in *Adhatoda vasica* Nees 258(1983)183

Investigation of *Cinchona* leaf alkaloids by HPLC 260(1983)123

Analysis of cinchona alkaloids by HPLC 260(1983)184

Capillary GC of lupin alkaloids 261(1983)95

HPLC of *Cinchona* alkaloids. I. Normal-phase HPLC 261(1983)172

Reversed-phase HPLC separation for pilocarpine and isopilocarpine using radial compression columns 264(1983)264

Analysis of the alkaloids of *Papaver pilosum* by HPLC: application to the separation of epimers (in French) 265(1983)139

Use of HPLC for the characterization and determination of the main alkaloids of *Papaver somniverum* L. (in French) 268(1983)125

Screening of hallucinogenic mushrooms with HPLC and multiple detection 270(1983)293

Determination of vincamine by HPLC with dual-wavelength UV detection 270(1983)387

Alkane-2,3-diols
Separation of *erythro* and *threo* forms of alkane-2,3-diols from the uropygial gland of

the quail by glass capillary column GC 274(1983)305

Alkanes
Linearity of retention data plots for *n*-alkanes on porous silica in GC 257(1983)107

Simple and effective direct coupling for GC-MS on the MS 50 mass spectrometer. Full spectra up to *n*-$C_{54}H_{110}$ 259(1983)445

Characterization of hydrocarbon waxes by GLC with a high-resolution glass capillary column 260(1983)391

Alkanolamines
Determination of organic ionic compounds by LC with indirect photometric detection 259(1983)519

2-Alkanols
Effect of 2-alkanols on the separation of geometric isomers of retinol in non-aqueous HPLC 260(1983)129

Alkenes
GC separation of the products of the conversion of methanol to alkenes 257(1983)392

Alkoxyl groups
Rapid microdetermination of alkoxyl groups by GC. Application to lignin (in French) 264(1983)155

Alkyl acetates
GC of homologous esters. XX. Capillary column studies of alkyl acetates, chloroacetates, dichloroacetates and trichloroacetates 256(1983)221

GLC analyses. XVI. Determination of monochlorinated products formed in liquid-phase chlorination of C_9-C_{12}, C_{14}, C_{16} and C_{18} *n*-alkyl acetates on SE-30 and OV-351 quartz capillary columns with temperature programming 268(1983)19

1-O-Alkyl-2-acetyl-*sn*-glyceryl-3-phosphonocholine
Silicic acid column chromatography of phosphonolipids. III. Separation of 1-O-alkyl-2-acetyl-*sn*-glyceryl-3-phosphonocholine from *trans*-D-*erythro*-ceramide-N,N,N-trimethylaminoethyl phosphonate 261(1983)181

Alkylamines
Determination of organic ionic compounds by LC with indirect photometric detection 259(1983)519

Saccharide separations in reversed-phase HPLC using *n*-alkyl amine mobile phase additives 264(1983)215

N-Alkylaminobenzophenones
Heat-induced conversion of N-alkylaminobenzophenones into aminobenzophenones 270(1983)337

O-Alkyl-O-arylphenylphosphonothionates
Applicability of GLC in determining liquid-liquid partition data 252(1982)77

Alkyl-bonded silicas
Effects of chain length and carbon load on the performance of alkyl-bonded silicas for protein separations 255(1983)115

Alkyl methylphosphonic acids
HPLC analysis of alkyl methylphosphonic acids by derivatization 267(1983)209

Alkylnaphthalenes
HPLC of alkylnaphthalenes on silica 267(1983)222

Alkylphenols
Solvent composition effects with a cyano and a silica gel stationary phase in normal-phase LC of alkylphenols and naphthols 252(1982)21

Characterization of phenolic compounds by open-tubular LC 261(1983)245

Alkylphenoxy polyoxyethylene surfactants
HPLC method for determining ethoxymer distribution of alkylphenoxy polyoxyethylene surfactants 253(1982)283

N-Alkylphthalimides
HPLC behaviour of N-substituted phthalimides. Calculation of capacity factors for members of the homologous series 257(1983)247

Analysis of N-alkylphthalimides and N,N'-polymethylene-bis-phthalimides in industrial dye carrier formulations by GC-MS 264(1983)297

Alkyl sulphonates
Reversed-phase TLC of nitrogen bases using alkyl sulphonates as ion-pair reagents 264(1983)91

Alkyltrimethylammonium ions
Separation and quantitative determination of long-chain alkyltrimethylammonium ions by reversed-phase ion-pair LC using UV-absorbing counter ions 261(1983)117

Allantoin
HPLC of urea and related compounds with post-column derivatization 252(1982)209

Determination of allantoin and chlorohydroxyaluminium allantoinate in cosmetic and pharmaceutical products by HPLC 253(1982)237

Allergens
Investigations of the allergens of cocksfoot grass (*Dactylis glomerata*) pollen 266(1983)293

Allopurinol
Isotachophoretic analyses of anions at high pH 260(1983)471

Simultaneous determination of plasma and urinary uric acid, xanthine, hypoxanthine, allopurinol, oxipurinol, orotic acid, orotidine and creatinine by HPLC 274(1983)75

Allyl chloride
Quantitative determination of allyl chloride (3-chloropropene) in rat blood by electron-capture GC and GC-MS with selective ion monitoring 269(1983)108

Alprazolam
Development of a LC method for the determination of triazolo-benzodiazepines 268(1983)92

Alumina
Characterization of modified alumina as an adsorbent for GSC. Salt loading dependence of retention volume on modified alumina adsorbent coated with potassium carbonate 253(1982)205

Characterization of modified alumina as an adsorbent for GSC. Modification with dipotassium hydrogen phosphate 268(1983)359

Aluminium
Effect of ligand doping on the GC of the trifluoroacetylacetonates of chromium(III), aluminium(III) and iron(III) 256(1983)455

Aluminium oxide
Effect of support characteristics on the determination of the lipophilicity of some neutral, acidic and alkaline compounds by reversed-phase TLC 270(1983)97

Amiloride
Sample preparation by salts precipitation and quantitation by HPLC with UV detection of selected drugs in biological fluids 257(1983)345

Amines
Qualitative ion-pair reversed-phase TLC 252(1982)193

Formation of a new derivative of secondary amines during trimethylsilylation with N,O-bis(trimethylsilyl)fluoroacetamide. N-(Aminomethylene)-2,2,2-trifluoroacetamides 254(1983)109

Chromatographic study of the reaction of mercury(II) and silver(I) ions with nickel dithiocarbamate complexes derived from some aromatic amine drugs 254(1983)123

Design of a post-column fluorescence derivatization system for use with microbore columns 255(1983)563

Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

HPLC separation of enantiomers on (*S*)-1-(α-naphthyl)ethylamine bonded to silica gel 257(1983)111

Electrochemical detection in HPLC analysis of aromatic amines 258(1983)244

HPLC determination of putrescine, spermidine and spermine after derivatisation with 4-fluoro-3-nitrobenzotrifluoride 258(1983)289

Role of buffer cations in the reversed-phase HPLC of aromatic amines. I. Methanol-rich eluents 259(1983)49

Chromatographic determination of some hindered amine light stabilizers in polyolefins 260(1983)507

Simultaneous determination of amines and isocyanates in working atmospheres by GLC 261(1983)253

Determination of tertiary aliphatic amines by HPLC 261(1983)293

Off-line LC-MS studies of *o*-phthalaldehyde-primary amine derivatives 261(1983)407

Fluorometric determination of secondary amines by HPLC with post-column derivatization 264(1983)423

HPLC of enantiomers on (*S*)-2-(4-chlorophenyl)isovaleric acid and its amide derivatives bonded to silica gel 265(1983)111

Trace analysis of amines and isocyanates using glass capillary gas chromatography and selective detection. I. Determination of aromatic amines as perfluoro fatty acid amides using electron-capture detection 267(1983)315

Enantiomer separation of polyols and amines by enantioselective GC 269(1983)19

Interaction of chloroform with some amines during GLC on an alkaline Carbowax 20M system 269(1983)61

Trace analysis of amines and isocyanates using glass capillary GC and selective detection. II. Determination of aromatic amines as perfluorofatty acid amides using nitrogen-selective detection 270(1983)207

Analysis of organics in the environment by functional group using a triple quadrupole mass spectrometer 271(1983)93

Determination of polyamines in hydrolysates of uremic plasma by high-performance cation-exchange column chromatography 272(1983)279

Pentafluorobenzoyl derivatives of doping agents. I. Extractive benzoylation and GC with electron-capture detection of primary and secondary amines 273(1983)141

Solvent extraction of tricyclic amines from blood plasma and LC determination 273(1983)151

Analysis of polyamines and acetyl derivatives by a single automated amino acid analyzer technique 273(1983)263

GLC-frequency pulse-modulated electron-capture detection in the diagnosis of infectious diseases 274(1983)1

GC analysis of bacterial amines as their free bases 274(1983)37

Amino acid amides, Dns derivatives
Separation of Dns-amino acid amides by HPLC 266(1983)483

Amino acids
Off-line combination of LC and field desorption MS: principles and environmental, medical and pharmaceutical applications 251(1982)105

Qualitative ion-pair reversed-phase TLC 252(1982)193

Determination of taurine in foods and feeds using an amino acid analyser 254(1983)332

Retention behavior of amino acid enantiomers in reversed-phase LC 255(1983)41

High-performance ligand-exchange chromatography of *α*-amino acid enantiomers. Studies on monomerically bonded 3-(L-prolyl)- and 3-(L-hydroxyprolyl)propyl silicas 255(1983)51

Operating parameters in high-performance displacement chromatography 255(1983)273

Amperometric detection of amino acids in HPLC with a copper electrode 256(1983)17

Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. III. Features of solutes and biological particles detected by the partition technique 256(1983)49

Determination of p*I* values of variously methylated amino acids by isoelectric focusing 256(1983)331

HPLC separation of enantiomers on (*S*)-1-(*α*-naphthyl)ethylamine bonded to silica gel 257(1983)111

Chiral phases derived from XE-60 for glass capillary GC of amino acid enantiomers 258(1983)35

Determination of organic ionic compounds by LC with indirect photometric detection 259(1983)519

Enantiomeric resolution of amino acids by high-performance ligand-exchange chromatography using histidine-bonded silica gel 260(1983)75

High-performance ligand-exchange chromatography of enantiomers. Studies on polystyrene-type chiral phases bonded to microparticulate silicas 261(1983)223

Ligand-exchange chromatography of amino acid racemates on polystyrene sorbents containing L-methionine-*d*-sulphoxide or L-methionine-*l*-sulphoxide groups 261(1983)301

Determination of L-tyrosine in rat brain by reversed-phase LC with electrochemical detection 262(1983)415

Separation of sulphur-containing substances, amino acids and nucleotides during gel filtration on Trisacryl GF05 by specific gel interaction 264(1983)111

Amino acid content of heparins 264(1983)291

Effect of the skeletal structure of sorbents containing L-hydroxyproline groups on enantioselectivity in ligand-exchange chromatography of amino acid racemates 264(1983)377

HPLC of enantiomers on (*S*)-2-(4-chlorophenyl)isovaleric acid and its amide derivatives bonded to silica gel 265(1983)111

Analysis of mimosine and 3-hydroxy-4(1*H*)-pyridone in plasma by HPLC 265(1983)143

Chromatographic behaviour of amino acids, their derivatives and peptides on layers of ammonium tungstophosphate and silanized silica gel 268(1983)493

Rapid HPLC method for the assay of glutamine in human cerebrospinal fluid 274(1983)325

Amino acids, N-acetyl-O-*tert.*-butyl esters
Chiroselective complexation based on hydrogen bonds for the resolution of D- and L-amino acid derivatives by silica gel LC 267(1983)11

Amino acids, N-acetyl methyl esters
Resolution of enantiomers of amino acid derivatives by HPLC in a silica gel bonded chiral amide phase 257(1983)118

Amino acids, N(O,S)-acyl alkyl esters
Derivatization of amino acids to their N(O,S)-acyl alkyl esters for GLC determination 256(1983)326

Amino acids, N(O,S)acyl alkyl esters
GC of various N(O,S) acyl alkyl esters of amino acids 268(1983)403

Amino acids, N-aroyl derivatives
Direct LC separation of enantiomers on immobilized protein stationary phases. III. Optical resolution of a series of N-aroyl D,L-amino acids by HPLC on bovine serum albumin covalently bound to silica 264(1983)63

Amino acids, N-benzoyl methyl esters
Resolution of enantiomers of amino acid derivatives by HPLC in a silica gel bonded chiral amide phase 257(1983)118

Amino acids, DNP derivatives
Physico-chemical factors governing partition behaviour of solutes and particles in aqueous

polymeric biphasic systems. I. Effect of ionic composition on the relative hydrophobicity of the phases 253(1982)139

Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. II. Effect of ionic composition on the hydration properties of the phases 253(1982)149

Computer assistance in the selection of the optimum combination of systems for two-dimensional chromatography 264(1983)1

Amino acids, Dns derivatives
Dansylation and HPLC separation of phosphoserine, phosphothreonine and phosphotyrosine from ^{32}P-labeled protein hydrolyzates 253(1982)276

HPLC of amino acids, peptides and proteins. XXXIX. Reversed-phase HPLC analysis of Dns-amino acids: comparison of several different elution systems 255(1983)67

Differentiation of N^{α}- and N^{β}-substituted α, β-diaminopropionic acids 256(1983)372

New LC approaches for free amino acid analysis in plants and insects. II. TLC analysis for eighteen varieties of palm trees 260(1983)147

HPLC separation of Dns-amino acid derivatives and applications to peptide and protein structural studies 270(1983)253

Amino acids, heptafluorobutyryl isobutyl esters
GLC of amino acids. A routine determination of cystine/cysteine in fish meal 261(1983)146

Amino acids, ninhydrin derivatives
Comparison of ninhydrin and *o*-phthalaldehyde post-column detection techniques for HPLC chromatography of free amino acids 266(1983)461

Amino acids, OPA derivatives
Automated precolumn derivatization device to determine neurotransmitter and other amino acids by reversed-phase HPLC 260(1983)371

Fluorometric determination of secondary amines by HPLC with post-column derivatization 264(1983)423

Dual-detector methods for selective identification of prolyl residues and amide-blocked N-terminal groups in chromatographically separated peptides 266(1983)427

Comparison of ninhydrin and *o*-phthalaldehyde post-column detection techniques for HPLC chromatography of free amino acids 266(1983)461

o-Phthaldialdehyde precolumn derivatization and reversed-phase HPLC of polypeptide hydrolysates and physiological fluids 266(1983)471

Determination of free methylhistidine and amino acids by HPLC 269(1983)114

Automated pre-column amino acid analyses by reversed-phase HPLC 270(1983)378

Reversed-phase ion-pair chromatography of amino acids. Application to the determination of amino acids in plasma samples and dried blood on filter papers 274(1983)318

Amino acids, oxazolidinones
Single-column GC analysis of amino acid oxazolidinones 252(1982)217

Amino acids, pentafluoropropionyl derivatives
Determination of amino acid enantiomers by two-column GC with valveless column switching 262(1983)352

Amino acids, PTH derivatives
Optimization of complex separations in HPLC. Application to phenylthiohydantoin amino acids 266(1983)451

Separation of phenylthiohydantoin-amino acids by HPLC 270(1983)371

Amino acids, N-trifluoroacetyl-N,O-permethyl derivatives
Amino acid sequence determination by GC-MS of permethylated peptides. The application of capillary columns 268(1983)197

Amino acids, N(O,S)-trifluoroacetyl *n*-propyl esters
GLC determination of N(O,S)-trifluoroacetyl *n*-propyl esters of protein and non-protein amino acids 256(1983)267

9-Aminoalkylacridines
Affinity chromatography of acetylcholinesterase from *Electrophorus electricus* electroplax. Investigations of 9-aminoalkylacridine affinity ligands 257(1983)275

1-Amino-9,10-anthraquinones
HPLC of 1-amino-9,10-anthraquinones 265(1983)368

4-Aminoantipyrine
Determination of phenols in water samples as 4-aminoantipyrine derivatives by HPLC 257(1983)69

Aminobenzophenones
Heat-induced conversion of N-alkylaminobenzophenones into aminobenzophenones 270(1983)337

Amino-bonded phases
HPLC of sugar mixtures containing xylose and arabinose on primary amino-bonded phases 253(1982)49

γ-Aminobutyric acid agonist
Quantitative determination of the γ-aminobutyric acid agonist, 4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3-ol, in serum by HPLC 274(1983)209

Amino-G acid
Quantitative HPLC analysis of the commercial dyestuff G acid and Gama acid 260(1983)97

N-(Aminomethylene)-2,2,2-trifluoroacetamides
Formation of a new derivative of secondary amines during trimethylsilylation with N,O-bis(trimethylsilyl)fluoroacetamide. N-(Aminomethylene)-2,2,2-trifluoroacetamides 254(1983)109

2-Amino-1-naphthalenesulphonic acid
Analysis of the sulphonation products of 2-amino-1-naphthalenesulphonic acid by HPLC 254(1983)322

Aminophenols
TLC on chemically bonded phases: a comparison of pre-coated plates 258(1983)43

2-Aminopropiophenones
GC decomposition of 2-aminopropiophenones 270(1983)151

4-Aminopyridine
HPLC determination of 4-aminopyridine and 3,4-diaminopyridine in rat cerebrospinal fluid and serum 272(1983)221

Aminopyrine
Simultaneous determination of aminopyrine hydroxylation and aminopyrine N-demethylation in liver microsomes by HPLC 274(1983)201

Amino sugars
Detection of neutral and aminosugars from glycoproteins and polysaccharides as their alditol acetates 256(1983)419

Capillary GC analysis of alditol acetates of neutral and amino sugars in bacterial cell walls 256(1983)429

Determination of neutral, amino and N-acetyl amino sugars as alditol benzoates by LSC 265(1983)335

Aminotransferases
Application of affinity partitioning in an aqueous two-phase system to the investigation of triazine dye-enzyme interactions 259(1983)97

***p*-Aminotriphenylmethane dyes**
HPLC of quinoidal imminium compounds derived from triphenylmethanes 255(1983)101

Amiodarone
Synthesis of [^{125}I]amiodarone and its purification by HPLC 261(1983)305

Simultaneous determination of amiodarone and its major metabolite desethylamiodarone in plasma, urine and tissues by HPLC 273(1983)379

Ammonium carbonate
Volatile buffer system for high-performance anion-exchange chromatography of nucleotides 260(1983)161

Amoxicillin
Formation of penicillin polymers and determination of molecular weight 258(1983)262

Amoxicillin β-penicilloic acid
Study on the rate of epimerization of amoxicillin β-penicilloic acid to its α-form in aqueous solutions using HPLC 255(1983)199

AMP derivatives
HPLC of some AMP derivatives used as affinity ligands 258(1983)199

Amphetamine
Chromatographic study of the reaction of mercury(II) and silver(I) ions with nickel dithiocarbamate complexes derived from some aromatic amine drugs 254(1983)123

Simultaneous GC analysis of drugs of abuse on two fused-silica columns of different polarities 254(1983)179

Analysis of N-momo-trifluoroacetyl derivatives of amphetamine analogues by GC and MS 257(1983)45

Application of HPLC chiral stationary phases to pharmaceutical analysis. Direct enantiomeric resolution of amide derivatives of 1-phenyl-2-aminopropane 259(1983)465

An investigation of HPLC methods for the analysis of amphetamines 272(1983)111

Amphotericin B
An internally-standardized assay for amphotericin B in tissues and plasma 274(1983)271

Ampicillin
Formation of penicillin polymers and determination of molecular weight 258(1983)262

Androstenedione
Simultaneous measurement of four testicular Δ^4-3-ketosteroids by isocratic HPLC with on-line UV absorbance detection 257(1983)81

Angiotensin
HPLC of tyrosine-related peptides with electrochemical detection 262(1983)420

Anilines
Applicability of GLC in determining liquid-liquid partition data 252(1982)77

Substituent interaction effects in aromatic molecules in reversed-phase LC 253(1982)23

Simplified heptafluorobutyrylation on linuron and its metabolite 3,4-dichloroaniline 262(1983)328

HPLC determination of aniline in arsanilic acid and sodium arsanilate 268(1983)265

Anion exchangers
Evaluation of conventional and medium-performance anion exchangers for the separation of proteins 253(1982)219

Anions
Isotachophoretic determination of mobility and pK_a by means of computer simulation. I. Estimation of accuracy of the evaluated constants 252(1982)33

Isotachophoretic determination of mobility and pK_a by means of computer simulation. II. Evaluation of m_o and pK_a of 65 anions 252(1982)49

High-performance ion chromatography of anions 259(1983)459

Micro column ion chromatography with a hollow fibre suppressor 260(1983)81

Isotachophoretic analyses of anions at high pH 260(1983)471

Multiple column and detector approach to anion screening by isocratic HPLC 262(1983)61

Dynamically coated columns and conductivity detection for trace determination of organic anions by ion chromatography 262(1983)311

Novel eluent for the UV and conductometric detection of anions in unsuppressed ion chromatography 267(1983)218

GC determination of inorganic anions as pentafluorobenzyl derivatives 269(1983)183

Table of isotachophoretic indices. I. Simulated qualitative and quantitative indices of 287 anionic substances in the range pH 3-10 271(1983)D1

Anserine
Improved HPLC method for analysis of histidine dipeptides anserine, carnosine and balenine present in fresh meat 261(1983)153

Anthocyanidins
Separation of some anthocyanidins, anthocyanins, proanthocyanidins and related substances by reversed-phase HPLC 259(1983)291

Simple screening method for the separation and identification of sphagnorubins, a new class of anthocyanidins 268(1983)138

Anthocyanins
Separation of some anthocyanidins, anthocyanins, proanthocyanidins and related substances by reversed-phase HPLC 259(1983)291

HPLC separation of anthocyanins of *Sambucus nigra* L. 262(1983)385

Anthracyclines
Reversed-phase ion-pair chromatography of anthracyclines 254(1983)45

Analysis of adriamycin and adriamycinol in micro volumes of rat plasma 272(1983)421

HPLC method for pharmacokinetic studies on the new anthracycline 4-demethoxydaunorubicin and its 13-dihydro derivative 274(1983)281

Anthranilohydroxamic acids
HPLC analysis of naphtho- and anthranilohydroxamic acids 260(1983)493

Anthraquinones
Derivatization of natural anthraquinones by reductive silylation for GC and GC-MS analysis 258(1983)252

Anthraquinone sulphonic acids
Comparison of retention behaviour of aromatic sulphonic acids in reversed-phase systems with mobile phases containing ion-pairing ions and in systems with solutions of inorganic salts as the mobile phases 262(1983)121

9-Anthryldiazomethane
9-Anthryldiazomethane derivatives of prostaglandins for HPLC 253(1982)271

Antibiotics
Micro-bore HPLC for the analysis of pharmaceutical compounds 253(1982)227

Reversed-phase ion-pair chromatography of anthracyclines 254(1983)45

Study on the rate of epimerization of amoxicillin β-penicilloic acid to its α-form in aqueous solutions using HPLC 255(1983)199

TLC of erythromycins and other macrolides 256(1983)164

Simple method for the separation of cephalosporins using silica gel 60 as the stationary phase in TLC and in HPLC 256(1983)182

TLC analysis of carbapenem antibiotics in fermentation broths 256(1983)447

HPLC determination of β-lactam antibiotics, using fluorescence detection following post-column derivatization 257(1983)91

TLC separation of new semisynthetic derivatives of daunomycinone 257(1983)185

Role of silanophilic retention in the reversed-phase chromatography of chloramphenicol intermediates 257(1983)380

Formation of penicillin polymers and determination of molecular weight 258(1983)262

Effect of water-soluble β-cyclodextrin polymer on the lipophilicity of polymyxine examined by reversed-phase TLC 259(1983)107

Improvement of the chemical analysis of antibiotics. I. Simple method for the analysis of tetracyclines on silica gel HPTLC plates 260(1983)457

LC and MS analysis of mitosane and mitosene derivatives of mitomycin C 262(1983)231

TLC method for screening the hydrolysis of β-lactam esters. *In vitro* hydrolysis of benzylpenicillin-benzamidomethyl ester by non-specific serum esterases 264(1983)174

LC determination of lincomycin in fermentation beers 264(1983)241

Determination of *p*-hydroxypenicillin V, *p*-hydroxyphenoxyacetic acid, phenoxyacetic acid, and penicillin V in production fermentation broth 268(1983)120

HPLC comparison of the tunicaminyluracil-based antibiotics corynetoxin, tunicamycin, streptovirudin and MM 19290 268(1983)245

Preparative reversed-phase HPLC of monensin A and B sodium salts 268(1983)315

HPLC of distamycin A and its primary decomposition products as well as some synthetic analogues 268(1983)347

HPLC analysis of erythromycins A and B from fermentation broths 269(1983)33

Analysis of adriamycin and adriamycinol in micro volumes of rat plasma 272(1983)421

Determination of ceftriaxone, a novel cephalosporin, in plasma, urine and saliva by HPLC on an NH_2 bonded-phase column 273(1983)357

Analysis and quantitation of a metabolite of doxycycline in mice, rats, and humans by HPLC 274(1983)255

LC determination of mitomycin C in human plasma and urine 274(1983)263

HPLC method for pharmacokinetic studies on the new anthracycline 4-demethoxydaunorubicin and its 13-dihydro derivative 274(1983)281

Systematic approach to the determination of cephalosporins in biological fluids by reversed-phase LC 275(1983)133

Determination of sparsomycin in plasma and urine of the dog by means of reversed-phase HPLC and first pharmacokinetic results 275(1983)145

Antibodies
Rapid preparation and purification of alkaline phosphatase and ^{125}I-labeled antibody by minicolumn gel centrifugation chromatography 254(1983)219

Antipyrine
Determination of antipyrine in human plasma and saliva by HPLC (in French) 274(1983)403

α_1-Antitrypsin
Fast chromatofocusing of human serum proteins with special reference to α_1-antitrypsin and Gc-globulin 266(1983)523

Apolane
Classification of the "polarity" of porous polymer bead stationary phases by comparison with squalane and Apolane standard liquid phases 269(1983)153

Apomorphine
Analysis of N-*n*-propylnorapomorphine in plasma and tissue by capillary GC-electron-capture detection 274(1983)149

Determination of apomorphine and N-*n*-propylnorapomorphine in plasma using HPLC and fluorescence detection 274(1983)376

Aprindine
Determination of aprindine in plasma by GC-MS 274(1983)341

Arabinose
HPLC of sugar mixtures containing xylose and arabinose on primary amino-bonded phases 253(1982)49

Complete separation and quantification of neutral sugars from plant cell walls and mucilages by HPLC 256(1983)157

Arachidonic acid
Direct coupling of fused silica columns to the ion source of a mass spectrometer applied to studies of arachidonic acid metabolism in human fibroblasts 273(1983)166

Rapid extraction of arachidonic acid metabolites utilizing octadecyl reversed-phase columns 273(1983)402

Separation and quantitative determination of radiolabeled prostaglandins, thromboxanes, 6-keto-prostaglandin $F_{1\alpha}$ and other arachidonic acid metabolites produced in biological material 275(1983)61

Analysis of 1,2-diols of linoleic, α-linolenic and arachidonic acid by GC-MS using cyclic alkyl boronic esters 275(1983)245

Aromatic acids
TLC on chemically bonded phases: a comparison of pre-coated plates 258(1983)43

Aromatic compounds
LC separation of classes of higher boiling aromatic compounds by means of compact phases that form charge-transfer complexes (in German) 260(1983)305

Aromatic hydrocarbons
Evaluation of a Tenax GC sampling procedure for collection and analysis of vehicle-related aromatic and halogenated hydrocarbons in ambient air 252(1982)147

Arsanilic acid
HPLC determination of aniline in arsanilic acid and sodium arsanilate 268(1983)265

Artifacts
Artificial peaks in GPC due to combining column supports with different pore sizes 261(1983)381

Aryltetrahydronaphthalene lignans
HPLC of aryltetrahydronaphthalene lignans 255(1983)247

Ascorbic acid
Simultaneous analysis of ascorbic acid and dehydroascorbic acid in fruit and vegetables by HPLC 256(1983)368

HPLC of the bis(dinitrophenyl)hydrazone derivative of ascorbic acid, applied to analysis of ascorbic acid in beer 261(1983)176

L-Asparaginase
TLC determination of L-asparaginase in the presence of human serum 273(1983)431

Aspartylalkylamides
Retention behavior of amino acid enantiomers in reversed-phase LC 255(1983)41

Aspartyl-tRNA synthetase
Reversed-phase LC of peptides for direct micro-sequencing 259(1983)121

Aspergillaceae
Rapid determination of spoilage fungi 260(1983)109

Asulam
TLC detection of the herbicide asulam in soils and the identification of sulphanilamide as a minor soil degradation product 265(1983)378

Atenolol
Rapid HPLC method for the measurement of atenolol in plasma UV detection 275(1983)367

Atomic absorption spectrophotometer
Analysis of butyltin compounds by GC. Comparison of flame photometric and atomic absorption spectrophotometric detectors 268(1983)99

Atracurium besylate
Determination of atracurium besylate in human plasma 274(1983)409

Atropine
GC assay of atropine in formulations containing atropine sulphate and cholinesterase reactivators 257(1983)132

Reversed-phase TLC of nitrogen bases using alkyl sulphonates as ion-pair reagents 264(1983)91

Augustifoline
Capillary GC of lupin alkaloids 261(1983)95

Automation
Conversion of an analytical HPLC system into an automated semi-preparative unit and its application to the separation of a mixture of benzyl α- and β-D-glucofuranosides and glucopyranosides 257(1983)1

Auxins
Simultaneous analysis of indole-3-acetic acid and detection of 4-chloroindole-3-acetic acid and 5-hydroxyindole-3-acetic acid in plant tissues by HPLC of their 2-methylindolo-α-pyrone derivatives 258(1983)155

Azaarenes
Separation of azaarenes by polyamide TLC and the relationship between their basicity and R_F values 254(1983)35

Determination of trace azaarenes in water by GC and GC-MS 256(1983)81

Comparison of methods for the isolation of basic nitrogen compounds from coal tars 265(1983)223

Azo dyes
Separations of position-isomeric aromatic sulphonates by high-voltage electrophoresis in dimethylformamide (in German) 268(1983)477

Azoisobutyronitrile
Immobilization of silicone stationary phases for capillary chromatography through the action of azoisobutyronitrile 267(1983)395

Azoxy-4,4'-(diundecyl α-methyl cinnamate)
Liquid crystals as stationary phases in GLC. V. Thermodynamic study of solutions in azoxy-4,4'-(diundecyl α-methyl cinnamate) and cholesteryl nonanoate; Kinetics of phase transitions of cholesteryl nonanoate (in French) 261(1983)11

B

Bacteriochlorophylls
Chromatographic separation and analytical characterization of bacteriochlorophylls *ap*, *agg* and *b* 252(1982)269

Baeocystin
Screening of hallucinogenic mushrooms with HPLC and multiple detection 270(1983)293

Balenine
Improved HPLC method for analysis of histidine dipeptides anserine, carnosine and balenine present in fresh meat 261(1983)153

Band broadening in time
Partial solvent trapping in capillary GC. Description of a solvent effect (Review) 251(1982)235

Band development
Numerical analysis of chromatographic band development of one-component systems 270(1983)7

Band dispersion
Use of chromatographic data to determine the molecular weight of a solute eluted from an LC column 270(1983)29

Band width
Use of chromatographic data to determine the molecular weight of a solute eluted from an LC column 270(1983)29

Barbiturates
Off-line combination of LC and field desorption MS: principles and environmental, medical and pharmaceutical applications 251(1982)105

Applicability of GLC in determining liquid-liquid partition data 252(1982)77

Simultaneous GC analysis of drugs of abuse on two fused-silica columns of different polarities 254(1983)179

Advances in fused-silica column technology for the analysis of underivatized drugs 257(1983)211

Analysis of barbiturates in plasma and urine using GC without prior derivatization 258(1983)267

Basicity
Separation of azaarenes by polyamide TLC and the relationship between their basicity and R_F values 254(1983)35

Basicity constants
Correlation of pK_{BH+} of acetanilides with LC behaviour 267(1983)399

Basic nitrogen compounds
Comparison of methods for the isolation of basic nitrogen compounds from coal tars 265(1983)223

BAY FCR 1272
Chiral-phase HPLC separation of enantiomers of pyrethroid insecticide esters derived from α-cyano-3-phenoxybenzyl alcohol 258(1983)175

Befunolol
GC determination of the glucuronide of 2-(1-hydroxy-ethyl)-7-(2-hydroxy-3-isopropyl-aminopropoxy)-benzofuran, a metabolite of befunolol, in human urine 272(1983)187

Benzaldehydes
Separation of phenols, phenolic aldehydes, ketones and acids by HPLC 252(1982)167

Separation of phenolics (benzoic acids, cinnamic acids, phenylacetic acids, quinic acid esters, benzaldehydes and acetophenones, miscellaneous phenolics) and coumarins by reversed-phase HPLC 258(1983)111

Benzazepines
Determination of a pyrimido-benzazepine anxiolytic agent and its 5-hydroxy metabolite in whole blood, plasma and urine by GLC with electron-capture detection and by HPLC 275(1983)319

Benzene
Applicability of GLC in determining liquid-liquid partition data 252(1982)77

Interference effects in trapping trace components from gases on chromatographic sorbents. Sorption of benzene in the presence of *o*-xylene 265(1983)215

Benzoic acids
Separation of phenols, phenolic aldehydes, ketones and acids by HPLC 252(1982)167

Substituent interaction effects in aromatic molecules in reversed-phase LC 253(1982)23

Separation of phenolics (benzoic acids, cinnamic acids, phenylacetic acids, quinic acid esters, benzaldehydes and acetophenones, miscellaneous phenolics) and coumarins by reversed-phase HPLC 258(1983)111

Benzoin
HPLC of guanidino compounds using benzoin as a pre-column fluorescent derivatization reagent 268(1983)417

Benzomate
Determination of benzomate in plant tissues by HPLC 257(1983)151

Benzo[*a*]pyrene
Simplified analysis of benzo[*a*]pyrene in airborne particulates by HPLC 261(1983)103

TLC separation and spectra of oxygenated benzo[*a*]pyrene derivatives in dichloromethane 264(1983)453

Benzoquinolines
Separation of azaarenes by polyamide TLC and the relationship between their basicity and R_F values 254(1983)35

N-[*p*-(2-Benzoxazolyl)-phenyl]maleimide
Analysis of D-penicillamine in plasma by fluorescence derivatisation with N-[*p*-(2-benzoxazolyl)-phenyl] maleimide and HPLC 275(1983)89

Benzoylamino acid
Direct LC separation of enantiomers on immobilized protein stationary phases. II. Optical resolution of a sulphoxide, a sulophoximine and a benzoylamino acid 252(1982)297

Benzyl alcohol
HPLC separation of 1-benzyl-4-(2'-pyridinecarbonyl)piperazine and its potential metabolites 258(1983)271

Benzylpenicillin-benzamidomethyl ester
TLC method for screening the hydrolysis of β-lactam esters. *In vitro* hydrolysis of benzylpenicillin-benzamidomethyl ester by non-specific serum esterases 264(1983)174

N-Benzylpiperazine
HPLC separation of 1-benzyl-4-(2'-pyridinecarbonyl)piperazine and its potential metabolites 258(1983)271

1-Benzyl-4-(2'-pyridinecarbonyl)piperazine
HPLC separation of 1-benzyl-4-(2'-pyridinecarbonyl)piperazine and its potential metabolites 258(1983)271

Bepridil
Determination of the anti-ischaemic drug bepridil in human plasma using GC with nitrogen-sensitive detection 272(1983)87

Beryllium oxyacetate
Rate and equilibrium studies of the reaction between beryllium oxyacetate and beryllium oxypropionate by GC 252(1982)131

Beryllium oxypropionate
Rate and equilibrium studies of the reaction between beryllium oxyacetate and beryllium oxypropionate by GC 252(1982)131

Betamethasone
Determination of drugs in biological samples by TLC-tandem MS 271(1983)107

Betaxolol
Improved determination of betaxolol in biological samples by capillary column GC 275(1983)183

Bile acids
Separation of steroid conjugates by HPLC (Review) 251(1982)289

HPLC separation of higher bile acids 257(1983)411

Micro HPLC separations of bile acids 258(1983)125

Determination of conjugated bile acids in human bile by isotachophoresis in a non-aqueous solvent using a.c. conductivity and UV detection 267(1983)85

Retention behaviour of bile acids in ion suppression and ion-pair chromatography on bonded phases 268(1983)1

Relative capacity factors of some keto bile acids on a reversed-phase HPLC system 268(1983)281

HPLC determination of bile acids involved in the synthesis of ursodeoxycholic acid 270(1983)402

Fluorescence HPLC determination of free and conjugated bile acids in serum and bile using 1-bromoacetylpyrene as a pre-labeling reagent 272(1983)29

Immbolized 3α-hydroxysteroid dehydrogenase and dansyl hydrazine as a pre-labeling reagent for HPLC with fluorescence detection of bile acids 272(1983)261

Simple enzymatic detection method for urinary sulfated 7α-hydroxy bile acids in normal subjects and in patients with acute hepatitis 273(1983)87

Bile salts
Formation and separation by reversed-phase HPLC of fluorescent and UV-absorbing bile salt derivatives 260(1983)115

Bilobalide
Analysis of terpenes from *Ginkgo biloba* L. by HPLC 267(1983)431

Binding analyses
Comparison between binding analyses performed by equilibrium dialysis and partitioning in aqueous two-phase systems exemplified by the binding of Cibacron Blue to serum albumin 252(1982)159

Biogel P-2
Adsorption chromatography on Bio-Gel P-2 267(1983)403

Biopterins
Post-column oxidation of reduced biopterins for fluorescence detection 254(1983)327

Determination of biopterin and other pterins in tissues and body fluids by HPLC 274(1983)398

Bipyridinium compounds
HPLC of paraquat and diquat in urine with rapid sample preparation involving ion-pair extraction on disposable cartridges of octadecyl-silica 255(1983)483

Bis(2-ethylhexyl)peroxyicarbonate
HPLC of bis(2-ethylhexyl)peroxydicarbonate on spherical silica gel 267(1983)227

Bisfluorophenyl
Screening procedure for detecting butyrophenone and bisfluorophenyl neuroleptics in urine using a computerized GC-MS technique 272(1983)75

N,O-Bis(trimethylsilyl)trifluoroacetamide
Formation of a new derivative of secondary amines during trimethylsilylation with N,O-bis(trimethylsilyl)fluoroacetamide. N-(Aminomethylene)-2,2,2-trifluoroacetamides 254(1983)109

Blood cells
Surface affinity chromatographic separation of blood cells. III. Effect of molecular weight of polyethylene glycol bonded stationary phases on elution behaviour of human blood cells 268(1983)375

Bond dispersion
Peak dispersion and mobile phase velocity in LC: the pertinent relationship for porous silica 270(1983)51

Bopindolol
Analysis of bopindolol and its active metabolite 18-502 in human plasma by HPLC 273(1983)469

Boronic acid-substituted silica
Boronic acid-silica: a new tool for the purification of catecholic compounds on-line with reversed-phase HPLC 265(1983)37

Synthesis and application of a boronic acid-substituted silica for high-performance liquid affinity chromatography 268(1983)291

Boronic esters
Analysis of 1,2-diols of linoleic, α-linolenic and arachidonic acid by GC-MS using cyclic alkyl boronic esters 275(1983)245

Bovine viral diarrhea virus
Bovine viral diarrhea virus: purification of surface proteins in detergent-containing buffers by fast protein LC 266(1983)643

Bowman-Birk inhibitor
Immobilized Bowman-Birk inhibitor for selective isolation of chymotrypsin B from bovine pancreas 269(1983)22

Brodifacoum
Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. I. Fluorescence detection using post-column techniques 270(1983)267

Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. II. Fluorescence detection using ion-pair chromatography 270(1983)277

Bromadiolone
Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. I. Fluorescence detection using post-column techniques 270(1983)267

Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. II. Fluorescence detection using ion-pair chromatography 270(1983)277

1-Bromoacetylpyrene
Fluorescence HPLC determination of free and conjugated bile acids in serum and bile using 1-bromoacetylpyrene as a pre-labeling reagent 272(1983)29

Bromocriptine
LC-MS in the pharmaceutical industry: objectives and needs 251(1982)141

5-Bromo-2'-deoxyuridine
HPLC method for the separation of the halogenated pyrimidine 5-bromo-2'-deoxyuridine from its metabolites 252(1982)335

4-Bromomethyl-6,7-dimethoxycoumarin
4-Bromomethyl-6,7-dimethoxycoumarin as a fluorescent label for carboxylic acids in chromatographic detection 269(1983)81

Bromophenyl ethers
Synthesis and stationary phase properties of bromophenyl ethers 267(1983)293

Bufadienolides
Improved HPLC separation of cardiac glycosides of *Urginea maritima* (L.) Baker by in series coupling of reversed-phase columns of different polarity (in German) 257(1983)137

Buffer cations
Role of buffer cations in the reversed-phase HPLC of aromatic amines. I. Methanol-rich eluents 259(1983)49

Buffer-memory technique
LC-spectrometry with the buffer-memory technique 258(1983)81

Buffers
p*K* Values of phosphate buffer components in methanol-water reversed-phase eluents 257(1983)384

Improved buffer for the chromatographic separation of Factor VIII coagulant 257(1983)387

Bufogenin conjugates
Separation of steroid conjugates by HPLC (Review) 251(1982)289

Bupivacaine
Direct LC resolution of racemic drugs using α_1-acid glycoprotein as the chiral stationary phase 269(1983)71

Buspirone
Identification and quantitation of 1-(2-pyrimidinyl)piperazine, an active metabolite of the anxiolytic agent buspirone, in rat plasma and brain 252(1982)310

1,3-Butadiene
Adsorption of *n*-butane and 1,3-butadiene on cross-linked polystyrene 256(1983)213

***n*-Butane**
Adsorption of *n*-butane and 1,3-butadiene on cross-linked polystyrene 256(1983)213

Butanoates
GLC analyses. XVIII. Separation of aliphatic C_1-C_{18} *n*-alkyl esters of butanoic, 2-chlorobutanoic, 3-chlorobutanoic and 4-chlorobutanoic acids with the corresponding alcohols 268(1983)437

GLC analyses. XIX. Branched-chain alcohols and their propanoyl, monochloropropanoyl, butanoyl and monochlorobutanoyl derivatives 270(1983)171

GLC analyses. XX. Unsaturated alcohols and the corresponding esters of propanoic and butanoic acids and their monochlorinated derivatives 270(1983)181

Butanoic acids
GC of homologous esters. XIX. Dihalogenated esters of butanoic and pentanoic acids 253(1982)264

Butoprozine
On-line diode array UV-visible spectrometry in screening for drugs and drug metabolites by HPLC 267(1983)329

Butorphanol
Determination of drugs in biological samples by TLC-tandem MS 271(1983)107

***n*-Butylamine**
Temperature-programmed desorption of organic bases on NaY zeolite under chromatographic conditions 259(1983)283

Butylated hydroxyanisole
HPLC separation of the isomers of butylated hydroxyanisole 262(1983)393

2-*n*-Butyl-2-ethyl-nonanohydroxamic acid
Use of high-molecular-weight "neo" hydroxamic acids as the stationary phase in column extraction chromatography 270(1983)324

Butyl-G3000SW
High-performance hydrophobic interaction chromatography of proteins 266(1983)49

Butyltin
Analysis of butyltin compounds by GC. Comparison of flame photometric and atomic absorption spectrophotometric detectors 268(1983)99

Butyrophenone
Screening procedure for detecting butyrophenone and bisfluorophenyl neuroleptics in urine using a computerized GC-MS technique 272(1983)75

C

Cadaverine
Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

Determination of polyamines in hydrolysates of uremic plasma by high-performance cation-exchange column chromatography 272(1983)279

Caeruloplasmin
Use of HPLC to study the caeruloplasmin-catalysed oxidation of biogenic amines. I. Single substrate systems 256(1983)71

Caffeine
Assay of mixtures of phenylpropanolamine hydrochloride and caffeine in appetite suppressant formulations by HPLC 261(1983)111

Analysis of some commercial preparations for migraine treatment using ion-pair HPLC with addition of salts to the mobile phase 261(1983)345

Reversed-phase TLC of nitrogen bases using alkyl sulphonates as ion-pair reagents 264(1983)91

Determination of drugs in biological samples by TLC-tandem MS 271(1983)107

5-Caffeoylquinic acid
Analytical and preparative HPLC of hydroxycinnamic acid esters 260(1983)447

Calcium
Calcium isotope enrichment by means of counter-current electromigration using an ion-exchange resin as migration medium 252(1982)121

Dependence of the calcium distribution coefficient on a strongly acidic cation-exchange resin on the anion of strong acids and their lithium salts 262(1983)211

Calibration standards
Comparison of poly(ethylene oxide), pullulan and dextran as polymer standards in aqueous gel chromatography 256(1983)61

Californium-252 fission fragment-induced ionization
Fractional sampling interface for combined LC-MS with ^{252}Cf fission fragment-induced ionization 271(1983)35

Californium-252 plasma desorption
Survey of ionization methods with emphasis on LC-MS 251(1982)93

Camphor
GC-circular dichroism system for detection of optically active substances 262(1983)321

Cannabinoids
Simple HPLC method for separating acidic and neutral cannabinoids in *Cannabis sativa* L. 253(1982)295

TLC-MS identification of 11-nor-Δ^9-tetrahydrocannabinol-9-carboxylic acid 264(1983)336

Capacity factors
Observations on capacity factor determination for reversed-phase LC with aqueous methanol eluents using the solubility parameter concept model and its derivatives 264(1983)47

Capillary columns
see also Columns, small-diameter columns and microbore columns

Preparation of fused-silica polar stationary phase wall-coated open tubular columns 254(1983)63

LC in open-tubular columns. Theory of column optimization with limited pressure and analysis time, and fabrication of chemically bonded reversed-phase columns on etched borosilicate glass capillaries 255(1983)335

Capillary LC in field flow fractionation-type channels 255(1983)359

Optimization and evaluation of packed capillary columns for HPLC 255(1983)381

Immobilization of polyethylene glycol in capillary columns for GC 268(1983)387

Capillary isotachophoresis
Discontinuous fractionation technique for capillary isotachophoresis 256(1983)126

On-line radiometric detection in capillary isotachophoresis. I. Preliminary experiments 258(1983)238

Capping
Quantitative determination of the degree of capping and structural investigation of octadecylsilane phases by means of pyrolysis in GC 262(1983)183

Carbamates
Rapid two-step preconcentration procedure for Aldicarb determination in water by HPLC using a 254-nm detector 253(1982)289

Determination of carbofuran and its metabolites 255(1983)191

Direct determination of some carbamate pesticides in water and soil by HPLC 260(1983)502

Carbamazepine
Quantitative determination of oxcarbazepine 274(1983)417

Carbamic herbicides
Determination of carbamic herbicides by HPLC. III. Triallate 261(1983)166

Carbapenem antibiotics
TLC analysis of carbapenem antibiotics in fermentation broths 256(1983)447

Carbaryl
Reversed-phase HPLC separation of human phenolic metabolites of propoxur (Baygon), carbofuran and carbaryl 259(1983)186

Carbidopa
Determination of the enantiomeric purity of levodopa, methyldopa, carbidopa and tryptophan by use of chiral mobile phase HPLC 257(1983)317

Carbodiimides
HPLC of some biologically active carbodiimides 259(1983)189

Carbofuran
Determination of carbofuran and its metabolites 255(1983)191

Reversed-phase HPLC separation of human phenolic metabolites of propoxur (Baygon), carbofuran and carbaryl 259(1983)186

Carbohydrates
see also Sugars and saccharides

Accelerated reversed-phase chromatography of carbohydrate oligomers 254(1983)143

GLC analysis of hydroxyethyl-starch 254(1983)187

Determination of cellulose and non-cellulose carbohydrates in recent sediments by GC 260(1983)487

Comparative separation of low-molecular-weight carbohydrates and polyols by HPLC: radially compressed amine modified silica *versus* ion exchange 261(1983)65

Analysis of phenyldimethylsilyl derivatives of monosaccharides and their role in HPLC of carbohydrates 264(1983)99

HPLC determination of formic acid in cleavage reactions of carbohydrates 268(1983)539

β-Carbolines
Separation of the indolealkylamines and their analogous tetrahydro-β-carbolines by LC 275(1983)21

Carbon chain length
Effects of chain length and carbon load on the performance of alkyl-bonded silicas for protein separations 255(1983)115

Stationary phase effects on the reversed-phase LC retention behavior of purine and pyrimidine compounds 255(1983)151

Carbon coverage
Stationary phase effects on the reversed-phase LC retention behavior of purine and pyrimidine compounds 255(1983)151

Carbon loading
Effects of chain length and carbon load on the performance of alkyl-bonded silicas for protein separations 255(1983)115

Stationary phase effects on the reversed-phase LC retention behavior of purine and pyrimidine compounds 255(1983)151

Carbon number
Effective carbon number of methane in GC 256(1983)193

2-Carboxy-4,6-dinitrophthalic anhydride
Derivatizing reagents for HPLC detection of peptides at the picomole level 266(1983)401

Carboxylate scrambling
Rate and equilibrium studies of the reaction between beryllium oxyacetate and beryllium oxypropionate by GC 252(1982)131

Carboxylic acids
see also Organic acids

HPLC of carboxylic acids (Review) 251(1982)339

Qualitative ion-pair reversed-phase TLC 252(1982)193

Glass capillary GC of homologous series of esters. II. Separation of homologous series of halogenoethyl esters of aliphatic monocarboxylic acids on OV-101 252(1982)293

Anion chromatography of carboxylic acids and keto acids using a hollow-fibre suppressor 253(1982)87

HPLC separation of enantiomers on (*S*)-1-(α-naphthyl)ethylamine bonded to silica gel 257(1983)111

Micro column ion chromatography with a hollow fibre suppressor 260(1983)81

GLC determination of hydroxy carboxylic acids on a fused-silica capillary column 261(1983)320

HPLC of enantiomers on (*S*)-2-(4-chlorophenyl)isovaleric acid and its amide derivatives bonded to silica gel 265(1983)111

Simultaneous quantitation of Krebs cycle and related acids by mass fragmentography 268(1983)447

4-Bromomethyl-6,7-dimethoxycoumarin as a fluorescent label for carboxylic acids in chromatographic detection 269(1983)81

Quantitative trace analysis by reversed-phase LC-MS 271(1983)61

Analysis of organics in the environment by functional group using a triple quadrupole mass spectrometer 271(1983)93

GLC-frequency pulse-modulated electron-capture detection in the diagnosis of infectious diseases 274(1983)1

Use of O-((-)-menthyl)-N,N'-diisopropylisourea for the preparation of diastereomeric menthyl esters for the chromatographic resolution of enantiomeric carboxylic acids 275(1983)161

Carboxypeptidase N
Rapid assay of human plasma carboxypeptidase N by HPLC separation of hippuryl-lysine and its product 266(1983)173

Cardenolide glycosides
Separation of steroid conjugates by HPLC (Review) 251(1982)289

Cardiac glycosides
Improved HPLC separation of cardiac glycosides of *Urginea maritima* (L.) Baker by in series coupling of reversed-phase columns of different polarity (in German) 257(1983)137

HPLC system for a wide range of naturally occurring glycosides 258(1983)135

Separation and determination of cardiac glycosides in *Digitalis purpurea* leaves by micro HPLC 258(1983)147

Correlation between the retention of cardiac glycosides in reversed-phase HPLC with a diphenylsilyl stationary phase, their structure and biological activity (Letter to the Editor) 264(1983)485

Cardiolipin
Silicic acid CC of phosphonolipds. I. Separation of phosphonosphingomyelin from cardiolipin and other phospholipids 259(1983)356

Carnosine
Improved HPLC method for analysis of histidine dipeptides anserine, carnosine and balenine present in fresh meat 261(1983)153

Carotenes
Rapid extraction and determination of α- and β-carotenes in foods 259(1983)515

HPLC of the provitamin A β-carotene in plasma 273(1983)410

Carotenoids
Chromatography of chloroplast carotenoids on magnesium oxide thin layers 262(1983)455

Carvacrol
Terpenoid analysis. II. The separation of some monoterpene alcohols by HPLC with electrochemical detection 260(1983)173

Casein
Affinity chromatography of trypsin on thermally modified casein 261(1983)138

Catalysts
Single temperature desorption from porous catalysts 254(1983)1

GC determination of the products of degradation of polyethylene over a silica-alumina catalyst 259(1983)69

Influence of mutarotation catalysts on the LC of malto-oligosaccharides on a cation-exchange resin 267(1983)347

Catecholamines
TLC separation and quantitation of radioactively labelled 5-hydroxytryptamine, 5-hydroxytryptamine-O-sulfate, and 5-hydroxyindoleacetic acid 252(1982)338

LC with crown ether-containing mobile phases. III. Retention of catecholamines and related compounds in reversed-phase HPLC 254(1983)27

Sensitive and specific radioenzymatic assay for norepinephrine, epinephrine and

dopamine based on the TLC separation of their Dns-O-methyl derivatives 254(1983)257

Determination of conjugated compounds by LC with electrochemical detection using post-column hydrolysis. Application to dopamine sulfate isomers 255(1983)475

Analysis of SK&F 82526 in plasma by HPLC with electrochemical detection 255(1983)491

Simultaneous multiple electrode LC-electrochemical assay for catecholamines, indoleamines and metabolites in brain tissue 255(1983)533

Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

Determination of dopamine-O-sulfate and norepinephrine-O-sulfate isomers and serotonin-O-sulfate by HPLC using dual-electrode electrochemical detection 264(1983)119

Fluorometric determination of secondary amines by HPLC with post-column derivatization 264(1983)423

Current amplification in dual electrochemical detection for micro HPLC 268(1983)157

Electrochemical detection for plasma catecholamines: apparent loss of dihydroxybenzylamine in dog plasma 270(1983)366

MS of biogenic catecholamine ion pairs by direct liquid introduction 271(1983)83

Postcolumn derivatization of catecholamines with 2-cyanoacetamide for fluorimetric monitoring in HPLC 274(1983)45

HPLC with electrochemical detection for the simultaneous determination of the methoxylated amines, normetanephrine, metanephrine and 3-methoxytyramine, in urine 274(1983)53

Modified sample preparation for HPLC-electrochemical assay of urinary catecholamines 275(1983)174

Determination of catecholamines in human serum by micro HPLC with micro precolumn and dual electrochemical detection 275(1983)271

Catecholic compounds
Boronic acid-silica: a new tool for the purification of catecholic compounds on-line with reversed-phase HPLC 265(1983)37

Catechol oestrogens
HPLC separation of catechol estrogens: use as a screening procedure for evaluation of *in vitro* metabolism of [^{3}H]estradiol 256(1983)335

Catechols
GC separation of acetylated chlorinated phenols, guaiacols and catechols on an SE-30 quartz capillary column 257(1983)127

Non-aqueous electrophoresis study of complex formation between catechol and technetium(V) 267(1983)213

Cefmenoxime
HPLC determination of cefmenoxime (AB-50912) in human plasma and urine 273(1983)458

Ceftriaxone
Determination of ceftriaxone, a novel cephalosporin, in plasma, urine and saliva by HPLC on an NH_2 bonded-phase column 273(1983)357

Cellulolytic enzymes
Analytical medium-pressure LC of cellulolytic enzymes on Spheron ion exchangers 267(1983)355

Cellulose
Determination of cellulose and non-cellulose carbohydrates in recent sediments by GC 260(1983)487

Effect of support characteristics on the determination of the lipophilicity of some neutral, acidic and alkaline compounds by reversed-phase TLC 270(1983)97

Cellulose acetate membranes
Protein titration curves using modified cellulose acetate membranes 275(1983)428

Cellulose gel membranes
Electrophoresis of thiols in cellulose gels. II. Application of cellulose gel membranes 261(1983)127

Cephalosporins
Simple method for the separation of cephalosporins using silica gel 60 as the stationary phase in TLC and in HPLC 256(1983)182

Determination of ceftriaxone, a novel cephalosporin, in plasma, urine and saliva by HPLC on an NH_2 bonded-phase column 273(1983)357

Systematic approach to the determination of cephalosporins in biological fluids by reversed-phase LC 275(1983)133

Cereal proteins
Separation of cereal proteins by reversed-phase HPLC 255(1983)219

Ceruloplasmin
Separation of limited tryptic fragments of human ceruloplasmin by gel-permeation HPLC 266(1983)257

Cetrimide
Separation and quantitative determination of long-chain alkyltrimethylammonium ions by

reversed-phase ion-pair LC using UV-absorbing counter ions 261(1983)117

Cetyltrimethylammonium bromide
HPLC on dynamically modified silica. IV. Effects of variations of pH, ionic strength and buffer composition in eluents containing cetyltrimethylammonium bromide 270(1983)77

CeY zeolite
GC adsorption-desorption techniques for measuring acid strength distribution on solid catalysts 268(1983)207

Charcoal tubes
LC determination of acetic acid trapped in charcoal tubes 254(1983)171

Charge-transfer complexes
LC separation of classes of higher boiling aromatic compounds by means of compact phases that form charge-transfer complexes (in German) 260(1983)305

Chiral additives
Retention behavior of amino acid enantiomers in reversed-phase LC 255(1983)41

Determination of the enantiomeric purity of levodopa, methyldopa, carbidopa and tryptophan by use of chiral mobile phase HPLC 257(1983)317

Enantiomeric resolution of 1-[2-(3-hydroxyphenyl)-1-phenylethyl]-4-(3-methyl-2-butenyl)piperazine by reversed-phase HPLC using a chiral mobile phase 258(1983)276

Chiroselective complexation based on hydrogen bonds for the resolution of D- and L-amino acid derivatives by silica gel LC 267(1983)11

Chiral alcohols
HPLC separation of chiral alcohols on chiral stationary phases 265(1983)117

Chiral stationary phases
see also Stationary phases

Chiral stationary phases, GC
GC separation of chrysanthemic acid ester enantiomers on a novel chiral stationary phase 254(1983)282

Chiral phases derived from XE-60 for glass capillary GC of amino acid enantiomers 258(1983)35

Enantiomer separation of polyols and amines by enantioselective GC 269(1983)19

Chiral stationary phases for the GLC separation of enantiomers (Review) 271(1983)309

GLC resolution and assay of tocainide enantiomers using a chiral capillary column and study of their selective disposition in man 274(1983)129

Chiral stationary phases, LC
High-performance ligand-exchange chromatography of α-amino acid enantiomers. Studies on monomerically bonded 3-(L-prolyl)- and 3-(L-hydroxyprolyl)propyl silicas 255(1983)51

HPLC separation of enantiomers on (*S*)-1-(α-naphthyl)ethylamine bonded to silica gel 257(1983)111

Resolution of enantiomers of amino acid derivatives by HPLC in a silica gel bonded chiral amide phase 257(1983)118

Chiral-phase HPLC separation of enantiomers of pyrethroid insecticide esters derived from α-cyano-3-phenoxybenzyl alcohol 258(1983)175

Application of HPLC chiral stationary phases to pharmaceutical analysis. Direct enantiomeric resolution of amide derivatives of 1-phenyl-2-aminopropane 259(1983)465

HPLC separation of enantiomers on (1*R*,3*R*)-*trans*-chrysanthemic acid and its amide derivatives bonded to silica gel 259(1983)487

Application of HPLC chiral stationary phases to pharmaceutical analysis. Resolution of ephedrine 261(1983)123

High-performance ligand-exchange chromatography of enantiomers. Studies on polystyrene-type chiral phases bonded to microparticulate silicas 261(1983)223

Ligand-exchange chromatography of amino acid racemates on polystyrene sorbents containing L-methionine-*d*-sulphoxide or L-methionine-*l*-sulphoxide groups 261(1983)301

Clay CC for optical resolution of tris(chelated) and bis(chelated) complexes on a Λ-Ru(1,10-phenanthroline$_3$)$^{2+}$-montmorillonite column 262(1983)41

HPLC of enantiomers on (*S*)-2-(4-chlorophenyl)isovaleric acid and its amide derivatives bonded to silica gel 265(1983)111

HPLC separation of chiral alcohols on chiral stationary phases 265(1983)117

Resolution of norephedrine as its 2-oxazolidone derivative: enantiomeric separation on a chiral HPLC stationary phase and preparative regeneration of the resolved isomers 268(1983)107

Direct LC resolution of racemic drugs using α_1-acid glycoprotein as the chiral stationary phase 269(1983)71

Chiral stationary phases, TLC
Direct resolution of enantiomers via TLC using a chiral adsorbent 264(1983)154

Chitin
Detection of neutral and aminosugars from glycoproteins and polysaccharides as their alditol acetates 256(1983)419

Chloramphenicol
Role of silanophilic retention in the reversed-phase chromatography of chloramphenicol intermediates 257(1983)380

Chlorhexidine
Determination of chlorhexidine and tetracaine in pharmaceutical preparations by ion-pair LC on a nitrile bonded phase (in French) 259(1983)360

GLC determination of chlorhexidine in pharmaceutical formulations 268(1983)321

Chloride
Determination of nitrate, chloride and sulphate in drinking water by capillary free-zone electrophoresis 267(1983)455

Modeling of analyte response to changing eluent composition in suppressed ion chromatography 269(1983)202

Chlorinated catechols
GC separation of acetylated chlorinated phenols, guaiacols and catechols on an SE-30 quartz capillary column 257(1983)127

Chlorinated hydrocarbons
GC separation of chlorinated C_1-C_3 hydrocarbons 254(1983)163

Chlorinated methyl propenoates
GLC analyses. XV. GC separation of methyl esters of chlorinated propenoic acids on SE-30 and OV-351 quartz capillary columns 257(1983)122

GC of homologous esters. XXIII. Capillary column studies of chlorinated methyl propenoates 268(1983)511

Chlorinated phenyl acetates
GC of homologous esters. XXI. Capillary column studies of the chlorinated phenyl acetates 257(1983)267

Chlorinated water
Chemical changes of organic compounds in chlorinated water. VI. GC and MS studies of the reactions of phenylphenols with hypochlorite in dilute aqueous solution 265(1983)201

Chloroacetates
GC of homologous esters. XX. Capillary column studies of alkyl acetates, chloroacetates, dichloroacetates and trichloroacetates 256(1983)221

GLC analyses. XVI. Determination of monochlorinated products formed in liquid-phase chlorination of C_9-C_{12}, C_{14}, C_{16} and C_{18} *n*-alkyl acetates on SE-30 and OV-351 quartz capillary columns with temperature programming 268(1983)19

Chloroanilines
TLC on chemically bonded phases: a comparison of pre-coated plates 258(1983)43

HPLC analysis of acid chlorides by pre-derivatization 268(1983)102

Chlorobenzenes
Substituent interaction effects in aromatic molecules in reversed-phase LC 253(1982)23

Retention increments of isomeric chlorobenzenes 265(1983)323

Chlorobutanoates
GLC analyses. XVIII. Separation of aliphatic C_1-C_{18} *n*-alkyl esters of butanoic, 2-chlorobutanoic, 3-chlorobutanoic and 4-chlorobutanoic acids with the corresponding alcohols 268(1983)437

GLC analyses. XIX. Branched-chain alcohols and their propanoyl, monochloropropanoyl, butanoyl and monochlorobutanoyl derivatives 270(1983)171

GLC analyses. XX. Unsaturated alcohols and the corresponding esters of propanoic and butanoic acids and their monochlorinated derivatives 270(1983)181

Chlorocarbons
Analysis of organics in the environment by functional group using a triple quadrupole mass spectrometer 271(1983)93

9-Chloro-7-(2-chlorophenyl)-5H-pyrimido[5,4-*d*][2]-benzazepine
Determination of a pyrimido-benzazepine anxiolytic agent and its 5-hydroxy metabolite in whole blood, plasma and urine by GLC with electron-capture detection and by HPLC 275(1983)319

Chlorofluoromethanes
GC determination of ultra-trace amounts of halogen-containing hydrocarbons in the atmosphere 264(1983)129

Chloroform
Solvent effects in capillary GC. Determination of trace amounts of chloroform as an example 264(1983)7

Interaction of chloroform with some amines during GLC on an alkaline Carbowax 20M system 269(1983)61

Chloroformates
GC analysis of chloroquine after a unique reaction with chloroformates 272(1983)307

Chloroguaiacols
GC separation of acetylated chlorinated phenols, guaiacols and catechols on an SE-30 quartz capillary column 257(1983)127

Chlorohydroxyaluminium allantoinate
Determination of allantoin and chlorohydroxyaluminium allantoinate in cosmetic and pharmaceutical products by HPLC 253(1982)237

4-Chloroindole-3-acetic acid
Simultaneous analysis of indole-3-acetic acid and detection of 4-chloroindole-3-acetic acid and 5-hydroxyindole-3-acetic acid in plant tissues by HPLC of their 2-methylindolo-α-pyrone derivatives 258(1983)155

Chloromethanes
Solution and adsorption thermodynamics in propylene glycol by GC. A comparative study with other polyhydroxylated solvents 259(1983)413

Chlorophenols
GC and GC-MS studies of acetate esters of chlorinated phenols 256(1983)135

GC separation of acetylated chlorinated phenols, guaiacols and catechols on an SE-30 quartz capillary column 257(1983)127

TLC on chemically bonded phases: a comparison of pre-coated plates 258(1983)43

Simultaneous determination of active ingredient and chlorophenol impurities in phenoxy acid herbicide formulations by HPLC with UV and electrochemical detection 258(1983)302

HPLC analysis of chlorophenols in cardboard food containers and related materials 267(1983)183

(*S*)-2-(4-Chlorophenyl)isovaleric acid
HPLC of enantiomers on (*S*)-2-(4-chlorophenyl)isovaleric acid and its amide derivatives bonded to silica gel 265(1983)111

Chlorophenylphenols
Chemical changes of organic compounds in chlorinated water. VI. GC and MS studies of the reactions of phenylphenols with hypochlorite in dilute aqueous solution 265(1983)201

Chlorophenylquinones
Chemical changes of organic compounds in chlorinated water. VI. GC and MS studies of the reactions of phenylphenols with hypochlorite in dilute aqueous solution 265(1983)201

Chloroplast coupling factor
HPLC purification of the hydrophobic ω subunit of the chloroplast energy coupling complex 266(1983)599

Chloropropanoates
GLC analyses. XVII. Separation of a mixture of primary C_1-C_{18} straight-chain alcohols and their propanoyl, 2-chloropropanoyl and 3-chloropropanoyl derivatives on SE-30 and OV-351 capillary columns with temperature programming 268(1983)229

GLC analyses. XIX. Branched-chain alcohols and their propanoyl, monochloropropanoyl, butanoyl and monochlorobutanoyl derivatives 270(1983)171

GLC analyses. XX. Unsaturated alcohols and the corresponding esters of propanoic and butanoic acids and their monochlorinated derivatives 270(1983)181

3-Chloropropene
Quantitative determination of allyl chloride (3-chloropropene) in rat blood by electron-capture GC and GC-MS with selective ion monitoring 269(1983)108

Chloropropenoates
GC of homologous esters. XXIII. Capillary column studies of chlorinated methyl propenoates 268(1983)511

Chloroquine
Distribution of chloroquine and its metabolite desethyl-chloroquine in human blood cells and its implication for the quantitative determination of these compounds in serum and plasma 272(1983)137

GC analysis of chloroquine after a unique reaction with chloroformates 272(1983)307

Determination of chloroquine and its major metabolite in blood using perfluoroacylation followed by fused-silica capillary GC with nitrogen-sensitive detection 274(1983)111

Chlorpheniramine maleate
Simultaneous determination of phenylephrine hydrochloride, chlorpheniramine maleate and sodium benzoate by reversed-phase, paired-ion and competing-base HPLC 262(1983)404

5β-Cholan-24-oic acids
Relative capacity factors of some keto bile acids on a reversed-phase HPLC system 268(1983)281

Cholesteryl esters
GLC of cholesteryl esters on non-polar and polar capillary columns following on-column injection 254(1983)195

Cholesteryl nonanoate
Liquid crystals as stationary phases in GLC. V. Thermodynamic study of solutions in azoxy-4,4'-(diundecyl α-methyl cinnamate) and cholesteryl nonanoate; Kinetics of phase transitions of cholesteryl nonanoate (in French) 261(1983)11

Choline esters
Separation of aromatic choline esters by HPLC 260(1983)193

Cholinesterase
Possibilities of study of the human plasma cholinesterase variants by affinity electrophoresis (in French) 273(1983)289

Cholinesterase reactivators
GC assay of atropine in formulations containing atropine sulphate and cholinesterase reactivators 257(1983)132

Chromarod
Chromarod separations for the analysis of marine lipid classes by Iatroscan TLC-flame ionization detection 262(1983)103

Chromatin
HPLC of chromatin histones 266(1983)609

Chromatofocusing
Comparison of chromatofocusing and isoelectric focusing in recovery of specific activity from biological fluids 262(1983)334

Separation of deamidated forms of triosephosphate isomerase by chromatofocusing. A comparison of chromatofocusing with column isoelectric focusing 265(1983)126

Chromatographic profiles
GLC-frequency pulse-modulated electron-capture detection in the diagnosis of infectious diseases 274(1983)1

Chromatographic reactor
Linear non-equilibrium chromatographic reactor with a first-order chemical reaction 261(1983)1

Chromatographic sampling
Temperature variation of gas diffusion coefficients measured by the reversed-flow sampling technique 254(1983)15

Chromatographic theory
Statistical approach to chromatographic theory (Review) 271(1983)193

Chromatography, publications
Evaluation of the role of chromatography in analytical chemistry based on the analysis of the subject matter of publications (Review) 251(1982)227

Chromium
Effect of ligand doping on the GC of the trifluoroacetylacetonates of chromium(III), aluminium(III) and iron(III) 256(1983)455

Gel chromatographic behaviour of trace amounts of chromium(IV) and hydrolysed chromium(III) in aqueous solution 257(1983)180

Chromosorb
Classification of the "polarity" of porous polymer bead columns for GC at high temperature by analysis of standard polarity probes 254(1983)69

Classification of the "polarity" of porous polymer bead stationary phases by comparison with squalane and Apolane standard liquid phases 269(1983)153

Chromotropic acid
Use of chromotropic acid for improved TLC visualization of trichothecene mycotoxins 261(1983)130

Chrysanthemic acid
HPLC separation of enantiomers on (1*R*,3*R*)-*trans*-chrysanthemic acid and its amide derivatives bonded to silica gel 259(1983)487

Chrysanthemic acid ester
GC separation of chrysanthemic acid ester enantiomers on a novel chiral stationary phase 254(1983)282

Chymotrypsin
Model study of hydrophobic interactions of α- and β-trypsin and α-chymotrypsin 259(1983)255

Purification of trypsin and other basic proteins by high-performance cation-exchange chromatography 266(1983)633

Highly sensitive method for determination of esterase activity of α-chymotrypsin and α-chymotrypsin-like enzymes using micro HPLC 267(1983)199

Immobilized Bowman-Birk inhibitor for selective isolation of chymotrypsin B from bovine pancreas 269(1983)22

Proteinase inhibitory assays of serum using high-performance size exclusion chromatography 275(1983)283

Cibacron Blue
Comparison between binding analyses performed by equilibrium dialysis and partitioning in aqueous two-phase systems exemplified by the binding of Cibacron Blue to serum albumin 252(1982)159

Cibenzoline
Determination of cibenzoline in plasma and urine by HPLC 273(1983)347

Cimetidine
Bioanalysis of cimetidine by HPLC 255(1983)239

Rapid method for determination of cimetidine in biological fluids by HPLC using Extrelut extraction 273(1983)223

New rapid assay of cimetidine in human plasma by reversed-phase HPLC 273(1983)449

Cinchona alkaloids
Investigation of *Cinchona* leaf alkaloids by HPLC 260(1983)123

Analysis of cinchona alkaloids by HPLC 260(1983)184

HPLC of *Cinchona* alkaloids. I. Normal-phase HPLC 261(1983)172

Cinnamic acids
Separation of phenols, phenolic aldehydes, ketones and acids by HPLC 252(1982)167

Separation of phenolics (benzoic acids, cinnamic acids, phenylacetic acids, quinic acid esters, benzaldehydes and acetophenones, miscellaneous phenolics) and coumarins by reversed-phase HPLC 258(1983)111

Circular dichroism
GC-circular dichroism system for detection of optically active substances 262(1983)321

Citrobacter
Head-space GLC for the rapid laboratory diagnosis of urinary tract infections caused by enterobacteria 274(1983)27

Class N solvents
Influence of water in LSC systems on retention data. I. Adsorption isotherms of the interface of class N solvents and silica gels 262(1983)1

Clenbuterol
Determination of drugs in biological samples by TLC-tandem MS 271(1983)107

Clocapramine
Determination of oxypertine in human serum by HPLC 274(1983)413

Clorazepate
HPLC determination of dipotassium clorazepate and its major metabolite nordiazepam in plasma 273(1983)367

Closed loop stripping analysis
Modified stripping technique for the analysis of trace organics in water 252(1982)139

Modified stripping technique for the analysis of trace organics in water (Letter to the Editor) 260(1983)527

Coal-tar
Detection of acridine in human urine after topical coal-tar treatment 273(1983)202

Cobalt complexes
Reversed-phase HPLC of pentaammine cobalt(III) complexes 262(1983)219

Separation and analysis of 2-(5-cyanotetrazolato)pentaamminecobalt(III) and related cobalt(III) complexes by capillary tube isotachophoresis 264(1983)329

Paper electrophoretic study of ion-pair formation. XIV. Resolution of optically active cobalt(III) complexes 265(1983)131

Cocaine
Stability of cocaine in biological fluids 268(1983)502

Codeine
HPLC separation of alkaloids from *Papaver somniferum* on a Zorbax NH_2 analytical column 253(1982)120

Reversed-phase TLC of nitrogen bases using alkyl sulphonates as ion-pair reagents 264(1983)91

GC study of the urinary codeine-to-morphine ratios in controlled codeine consumption and in mass screening for opiate drugs 267(1983)117

Determination of therapeutic concentrations of codeine by HPLC 274(1983)372

Assay for codeine, morphine and ten potential urinary metabolites by GC-mass fragmentography 275(1983)307

Codergocrine mesylate
LC-MS in the pharmaceutical industry: objectives and needs 251(1982)141

Coil planet centrifuge
Counter-current chromatography of diaziquone by a horizontal flow-through coil planet centrifuge 252(1982)283

Colchicine
HPLC application of the Hummel and Dreyer method for the determination of colchicine-tubulin binding parameters 266(1983)141

Cold traps
How efficient are capillary cold traps? 254(1983)265

Collagen
Reversed-phase HPLC method for separation of collagen tryptic peptides 272(1983)366

Cologne
HPLC-fluorometric determination of safrole in perfume, cologne and toilet water 255(1983)455

Colterol
Determination of colterol in human plasma and urine by reversed-phase chromatography with amperometric detection 273(1983)481

Column diameter
Increased speed of analysis in isothermal and temperature-programmed capillary GC by reduction of the column inner diameter 253(1982)1

Column efficiency
Influence of the particle size distribution of the packing material in reversed-phase HPLC 260(1983)13

Effect on column efficiency of packing capillary columns with inert spheres for use in LC 264(1983)258

Effects of intermediate mobile phase removal on column performance in two-dimensional CC 265(1983)159

Column optimization
LC in open-tubular columns. Theory of column optimization with limited pressure and analysis time, and fabrication of chemically bonded reversed-phase columns on etched borosilicate glass capillaries 255(1983)335

Column packing
Packing columns with flexible walls for HPLC 270(1983)332

Column preparation
Preparation of fused-silica polar stationary phase wall-coated open tubular columns 254(1983)63

Column pressure
Effect of pressure on solute diffusivity, solvent viscosity and column temperature in LC 260(1983)277

Columns
see also Capillary columns, small-diameter columns and microbore columns

Application of microbore columns to LC-MS 251(1982)129

Nomenclature of LC. On the description of small-diameter columns used in LC (Review) 251(1982)265

Micro-bore HPLC for the analysis of pharmaceutical compounds 253(1982)227

HPLC using flexible fused-silica micro-packed columns 255(1983)349

Larger-diameter small-particle columns for fast HPLC separations with conventional equipment 261(1983)189

Column switching
Automatic device for injection and multiple column switching in HPLC 260(1983)33

Applications of a microprocessor-controlled valve-switching unit for automated sample cleanup and trace enrichment in HPLC 264(1983)183

Column temperature
Effect of pressure on solute diffusivity, solvent viscosity and column temperature in LC 260(1983)277

Complex formation
Complex-forming equilibria in isotachophoresis. III. Estimation of optimum separation conditions of several organic acids by means of computer simulation 257(1983)197

Computer-assisted chromatography
Computer assistance in the selection of the optimum combination of systems for two-dimensional chromatography 264(1983)1

Computer simulation
Complex-forming equilibria in isotachophoresis. III. Estimation of optimum separation conditions of several organic acids by means of computer simulation 257(1983)197

Concanavalin A-Sepharose
Improved concanavalin A-Sepharose elution by specific readsorption of glycoproteins 261(1983)77

Concentration effects
Concentration and temperature effects in GPC 261(1983)33

Conductivity detection cells
Simple cell for conductimetric detection in capillary isotachophoresis 267(1983)67

Connecting tubes
Low-dispersion connecting tubes for LC systems 268(1983)169

Connectivity indices
Relationships between molecular connectivity indices, partition coefficients and chromatographic parameters 269(1983)91

Continuous flow enzyme detector
Rapid separation and measurement of rat urinary kallikrein by HPLC with a continuous flow enzyme detector 264(1983)249

Coordination compounds
HPLC: applications to organometallic and metal coordination compounds (Review) 251(1982)61

Copovithane
HPLC method for the quantitative analysis of a synthetic copolymer with antitumor activity (copovithane) and methylamine in human blood plasma and urine 273(1983)319

Copper
Development of a simultaneous GC method for the analysis of copper, nickel and vanadium at the ultra-trace level 254(1983)133

Copper electrode
Amperometric detection of amino acids in HPLC with a copper electrode 256(1983)17

Corticosteroids
Direct liquid introduction micro-LC-MS coupling. Optimization of droplet desolvation and instrumental parameters for high sensitivity 264(1983)357

Analysis of corticosterone in the serum of mice and rats using HPLC 272(1983)170

Influence of corticosteroid therapy on the fatty acid composition of serum lecithins monitored by means of TLC and GLC 273(1983)187

Corticosterone
Analysis of corticosterone in the serum of mice and rats using HPLC 272(1983)170

Cortinarins
Analysis of Cortinarius mushrooms by HPLC 268(1983)535

Corynetoxin
HPLC comparison of the tunicaminyluracil-based antibiotics corynetoxin, tunicamycin, streptovirudin and MM 19290 268(1983)245

Cotton
Preparation of whole-fiber cotton gel-filtration chromatography columns 268(1983)187

Coumarins
Separation of phenolics (benzoic acids, cinnamic acids, phenylacetic acids, quinic acid esters, benzaldehydes and acetophenones, miscellaneous phenolics) and coumarins by reversed-phase HPLC 258(1983)111

Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. I. Fluorescence detection using post-column techniques 270(1983)267

Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. II. Fluorescence detection using ion-pair chromatography 270(1983)277

Coumatetralyl
Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. I. Fluorescence detection using post-column techniques 270(1983)267

Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. II. Fluorescence detection using ion-pair chromatography 270(1983)277

Counter-current electromigration
Calcium isotope enrichment by means of counter-current electromigration using an ion-exchange resin as migration medium 252(1982)121

C-peptides
HPLC preparation of single-site carrier-free pancreatic polypeptide hormone radiotracers 266(1983)239

Creatinine
GLC reference method for the assay of urinary creatinine 273(1983)235

Simultaneous determination of plasma and urinary uric acid, xanthine, hypoxanthine, allopurinol, oxipurinol, orotic acid, orotidine and creatinine by HPLC 274(1983)75

Crotonolactones
Relationship between R_M values and hydrophobicity. Chromatographic behaviour of crotonolactones 254(1983)277

Crotoxin
Separation of the subunits of crotoxin by HPLC 259(1983)375

Crown ethers
LC with crown ether-containing mobile phases. III. Retention of catecholamines and related compounds in reversed-phase HPLC 254(1983)27

Detection of crown ethers by means of Dragendorff's reagent 269(1983)40

Crystallins
High-performance GPC of bovine eye lens proteins in combination with low-angle laser light scattering. Superior resolution of the oligomeric β-crystallins 252(1982)255

Artificial peaks in GPC due to combining column supports with different pore sizes 261(1983)381

Cumenesulphonate
Determination of sodium linear dodecyl benzene sulfonate and sodium cumene sulfonate in mixtures by LC 265(1983)121

Curcumin
HPLC of curcumin and related compounds 259(1983)367

Cyanide
Determination of cyanide, as cyanohydrin, in water by GC 262(1983)360

GC determination of inorganic anions as pentafluorobenzyl derivatives 269(1983)183

2-Cyanoacetamide
Postcolumn derivatization of catecholamines with 2-cyanoacetamide for fluorimetric monitoring in HPLC 274(1983)45

Cyanophenyl ethers
Synthesis and chromatographic properties of cyanophenyl ethers 252(1982)91

Stationary phase properties of cyanophenyl ethers 253(1982)255

Cyanosilicones
Cyanosilicones as stationary phases in GC. I. 254(1983)53

Cyanosilicones as stationary phases in GC. II. Gum and rubber phases on fused silica 267(1983)29

2-(5-Cyanotetrazolato)pentaammine cobalt(III)
Separation and analysis of 2-(5-cyanotetrazolato)pentaamminecobalt(III) and related cobalt(III) complexes by capillary tube isotachophoresis 264(1983)329

3',5'-Cyclic ribonucleotides
Isocratic reversed-phase LC separation of 3',5'-cyclic ribonucleotides 272(1983)373

Cyclizine
Analysis of some commercial preparations for migraine treatment using ion-pair HPLC with addition of salts to the mobile phase 261(1983)345

Cyclobenzaprine
Sample preparation by salts precipitation and quantitation by HPLC with UV detection of selected drugs in biological fluids 257(1983)345

Cyclodextrin
Cyclodextrins as stationary phases in chromatography (Review) 251(1982)17

α-Cyclodextrin as selective agent for the separation of *o*-, *m*- and *p*-nitrobenzoic acids by reversed-phase HPLC 253(1982)95

Effect of water-soluble β-cyclodextrin polymer on the lipophilicity of polymyxine examined by reversed-phase TLC 259(1983)107

β-Cyclodextrin as a selective agent for the separation of *o*-, *m*- and *p*-xylene and ethylbenzene mixtures in GLC 261(1983)357

Retention behaviour of disubstituted benzene isomers on acetylated cyclodextrin stationary phases 267(1983)292

Inclusion chromatography of enantiomers of indole alkaloids on a cyclodextrin polymer stationary phase 270(1983)127

Cyclohexyldiazomethane
GC and MS properties of naphthalenemethyl esters and cyclohexanemethyl esters of organic acids 260(1983)51

Cyclophosphamide
Off-line combination of LC and field desorption MS: principles and environmental, medical and pharmaceutical applications 251(1982)105

Simultaneous determination of some radiosensitizing and chemotherapeutic drugs in plasma by TLC 275(1983)223

Cyclopiazonic acids
Separation of the mycotoxins α- and β-cyclopiazonic acids using DEAE-cellulose 262(1983)446

Cyclosophoraoses
Separation of cyclic (1→2)-β-D-glucans (cyclosophoraoses) produced by *Agrobacterium* and *Rhizobium*, and determination of their degree of polymerization by HPLC 265(1983)89

Cyhexatin
HPLC determination of cyhexatin in technical and wettable pesticide powders 260(1983)200

Cypermethrin
Chiral-phase HPLC separation of enantiomers of pyrethroid insecticide esters derived from α-cyano-3-phenoxybenzyl alcohol 258(1983)175

Cyproheptadine
Sample preparation by salts precipitation and quantitation by HPLC with UV detection of selected drugs in biological fluids 257(1983)345

Cysteine
GLC of amino acids. A routine determination of cystine/cysteine in fish meal 261(1983)146

5-S-Cysteinyldopa
Determination of urinary 5-S-cysteinyldopa by HPLC 272(1983)287

Cystine
GLC of amino acids. A routine determination of cystine/cysteine in fish meal 261(1983)146

Cytidine
HPLC assay for cytosine arabinoside, uracil arabinoside and some related nucleosides 274(1983)87

Cytochrome *c*
Raman spectroscopic detection of haemoproteins in the eluate from HPLC 254(1983)285

Two-dimensional peptide mapping by reversed-phase column chromatography, applied to the sequence determination of cytochrome *c* from the wild type and a mutant of the butterfly, *Pieris brassicae* 266(1983)491

Purification of trypsin and other basic proteins by high-performance cation-exchange chromatography 266(1983)633

Cytochrome c_2
Chromatofocusing as a simple method of purification of two bacterial photosynthetic proteins: cytochrome c_2 and reaction centre of *Rhodopseudomonas viridis* 259(1983)341

Cytochrome *c* oxidase
Reversed-phase HPLC purification of subunits of oligomeric membrane proteins. The nuclear coded subunits of yeast cytochrome *c* oxidase 266(1983)585

Cytosine arabinoside
HPLC assay for cytosine arabinoside, uracil arabinoside and some related nucleosides 274(1983)87

D

2,4-D
Determination of 2-methoxy-3,6-dichlorobenzoic acid, 2,4-dichlorophenoxyacetic acid and 2-methyl-4-chlorophenoxyacetic acid in emulsifiable pesticide concentrates by HPLC 259(1983)181

Dansyl hydrazine
Immbolized 3α-hydroxysteroid dehydrogenase and dansyl hydrazine as a pre-labeling reagent for HPLC with fluorescence detection of bile acids 272(1983)261

Data acquisition
Automated data acquisition and control system for isotachophoresis 269(1983)198

Daunomycinone
TLC separation of new semisynthetic derivatives of daunomycinone 257(1983)185

Deactivation reagents
Thermostable deactivation reagents for capillary column preparation 260(1983)168

Dehydroabietic acid
Analysis of dehydroabietic acid in paper industry effluent by HPLC 268(1983)341

Dehydroascorbic acid
Simultaneous analysis of ascorbic acid and dehydroascorbic acid in fruit and vegetables by HPLC 256(1983)368

Dehydrogenases
Application of affinity partitioning in an aqueous two-phase system to the investigation of triazine dye-enzyme interactions 259(1983)97

4-Demethoxydaunorubicin
HPLC method for pharmacokinetic studies on the new anthracycline 4-demethoxydaunorubicin and its 13-dihydro derivative 274(1983)281

Densimetric detector
Densimetric detection in GPC. VII. Calculation of molecular weight distributions using a programmable pocket calculator 259(1983)381

Deoxycytidine
HPLC assay for cytosine arabinoside, uracil arabinoside and some related nucleosides 274(1983)87

Deoxygenation
Deoxygenation of small samples for reductive mode electrochemical detection in HPLC 256(1983)323

Deoxynivalenol
Interference in the GC determination of deoxynivalenol in cultures of *Fusarium solani* on corn 252(1982)305

Deoxyribonucleotides
Off-line combination of LC and field desorption MS: principles and environmental, medical and pharmaceutical applications 251(1982)105

Derivatization
New approaches to on-line ion-pair extraction and derivatization for HPLC-MS 251(1982)175

HPLC of urea and related compounds with post-column derivatization 252(1982)209

Single-column GC analysis of amino acid oxazolidinones 252(1982)217

Post-column air-segmentation reactor for the fluorometric detection of reserpine by LC 252(1982)288

Quantitative GLC determination of pemoline using trimethylanilinium hydroxide 252(1982)319

9-Anthryldiazomethane derivatives of prostaglandins for HPLC 253(1982)271

Dansylation and HPLC separation of phosphoserine, phosphothreonine and phosphotyrosine from ^{32}P-labeled protein hydrolyzates 253(1982)276

Prostaglandins and thromboxane: *tert.*-butyldimethylsilyl ethers as derivatives for their analyses by GC-MS-selected ion monitoring 254(1983)91

Formation of a new derivative of secondary amines during trimethylsilylation with N,O-bis(trimethylsilyl)fluoroacetamide. N-(Aminomethylene)-2,2,2-trifluoroacetamides 254(1983)109

Isothermal capillary column GC of trimethylsilyl disaccharides 254(1983)157

HPLC of fatty acids: quantitative analysis of saturated, monoenoic, polyenoic and geometrical isomers 254(1983)237

Sensitive and specific radioenzymatic assay for norepinephrine, epinephrine and dopamine based on the TLC separation of their Dns-O-methyl derivatives 254(1983)257

Design of a post-column fluorescence derivatization system for use with microbore columns 255(1983)563

Reversed-phase LC analysis of Dns-sugars. Optimization of derivatization and chromatographic procedures and applications to natural samples 256(1983)27

Trace analysis of aldehydes by reversed-phase HPLC and precolumn fluorigenic labeling with 5,5-dimethyl-1,3-cyclohexanedione 256(1983)243

GLC determination of N(O,S)-trifluoroacetyl *n*-propyl esters of protein and non-protein amino acids 256(1983)267

Derivatization of amino acids to their N(O,S)-acyl alkyl esters for GLC determination 256(1983)326

Detection of neutral and aminosugars from glycoproteins and polysaccharides as their alditol acetates 256(1983)419

Capillary GC analysis of alditol acetates of neutral and amino sugars in bacterial cell walls 256(1983)429

Separation and analysis of sulfate, phosphate and other oxyanions as their *tert.*-butyldimethylsilyl derivatives by GLC and MS 257(1983)37

Analysis of N-momo-trifluoroacetyl derivatives of amphetamine analogues by GC and MS 257(1983)45

Determination of phenols in water samples as 4-aminoantipyrine derivatives by HPLC 257(1983)69

HPLC determination of β-lactam antibiotics, using fluorescence detection following post-column derivatization 257(1983)91

Pentafluorobenzyl esters as derivatives for the semi-preparative HPLC of fatty acids 257(1983)174

Separation of tetrodotoxin and paralytic shellfish poisons by HPLC with a fluorometric detection using *o*-phthalaldehyde 257(1983)373

HPLC determination of dialkyltin homologues using fluorescence detection 258(1983)189

Sensitive LC method for the determination of formic acid in air samples 258(1983)207

Derivatization of natural anthraquinones by reductive silylation for GC and GC-MS analysis 258(1983)252

GLC resolution of sugar enantiomers as diastereoisomeric methylbenzylaminoalditols 259(1983)159

GC separation of enantiomeric sugars as diastereomeric trifluoroacetylated (-)-bornyloximes 259(1983)164

Formation and separation by reversed-phase HPLC of fluorescent and UV-absorbing bile salt derivatives 260(1983)115

Automated precolumn derivatization device to determine neurotransmitter and other amino acids by reversed-phase HPLC 260(1983)371

GLC of amino acids. A routine determination of cystine/cysteine in fish meal 261(1983)146

HPLC of the bis(dinitrophenyl)hydrazone derivative of ascorbic acid, applied to analysis of ascorbic acid in beer 261(1983)176

Determination of tertiary aliphatic amines by HPLC 261(1983)293

Off-line LC-MS studies of *o*-phthalaldehyde-primary amine derivatives 261(1983)407

Simplified heptafluorobutyrylation on linuron and its metabolite 3,4-dichloroaniline 262(1983)328

Analysis of phenyldimethylsilyl derivatives of monosaccharides and their role in HPLC of carbohydrates 264(1983)99

Simultaneous determination of small amounts of hydrochloric and hydrobromic acids by derivatization with ethylene oxide and GC 264(1983)405

Fluorometric determination of secondary amines by HPLC with post-column derivatization 264(1983)423

Analytical study of low-concentration gases. III. Determination of lower fatty acids and their trimethylsilyl esters in air by GC 265(1983)57

Sensitive and specific post-column fluorimetric determination of diethylstilboestrol residues in extracts of urine and animal tissues at the 1-ppb level 265(1983)239

Determination of neutral, amino and N-acetyl amino sugars as alditol benzoates by LSC 265(1983)335

Derivatizing reagents for HPLC detection of peptides at the picomole level 266(1983)401

Dual-detector methods for selective identification of prolyl residues and amide-blocked N-terminal groups in chromatographically separated peptides 266(1983)427

Optimization of complex separations in HPLC. Application to phenylthiohydantoin amino acids 266(1983)451

Comparison of ninhydrin and *o*-phthalaldehyde post-column detection techniques for HPLC chromatography of free amino acids 266(1983)461

Separation of Dns-amino acid amides by HPLC 266(1983)483

HPLC analysis of alkyl methylphosphonic acids by derivatization 267(1983)209

Fractionation of Dns-glycopeptides by reversed-phase HPLC 267(1983)238

Trace analysis of amines and isocyanates using glass capillary gas chromatography and selective detection. I. Determination of aromatic amines as perfluoro fatty acid amides using electron-capture detection 267(1983)315

Post-column derivatization of vitamin B_6 using 2,6-dibromoquinone-4-chlorimide 267(1983)414

HPLC analysis of acid chlorides by pre-derivatization 268(1983)102

Resolution of norephedrine as its 2-oxazolidone derivative: enantiomeric separation on a chiral HPLC stationary phase and preparative regeneration of the resolved isomers 268(1983)107

HPLC of guanidino compounds using benzoin as a pre-column fluorescent derivatization reagent 268(1983)417

4-Bromomethyl-6,7-dimethoxycoumarin as a fluorescent label for carboxylic acids in chromatographic detection 269(1983)81

GC determination of inorganic anions as pentafluorobenzyl derivatives 269(1983)183

GC resolution of 2-hydroxycarboxylic acid enantiomers 270(1983)159

Trace analysis of amines and isocyanates using glass capillary GC and selective detection. II. Determination of aromatic amines as perfluorofatty acid amides using nitrogen-selective detection 270(1983)207

HPLC resolution of *p*-nitrobenzyloxyamine derivatives of brain gangliosides 272(1983)9

Sphingosine determination at the picomole level using dimethylaminoazobenzene sulphonyl chloride 272(1983)21

Fluorescence HPLC determination of free and conjugated bile acids in serum and bile using 1-bromoacetylpyrene as a pre-labeling reagent 272(1983)29

An investigation of HPLC methods for the analysis of amphetamines 272(1983)111

Rapid simultaneous assay of serum estrone, estradiol, and estriol in pregnant women using methyl ether acetate derivatives by capillary GC and electron-impact MS 272(1983)233

HPLC determination of free fatty acids with 1-naphthylamine 272(1983)251

Immbolized 3α-hydroxysteroid dehydrogenase and dansyl hydrazine as a pre-labeling reagent for HPLC with fluorescence detection of bile acids 272(1983)261

GC analysis of chloroquine after a unique reaction with chloroformates 272(1983)307

Pentafluorobenzoyl derivatives of doping agents. I. Extractive benzoylation and GC with electron-capture detection of primary and secondary amines 273(1983)141

HPLC determination of α-keto acids in plasma with fluorometric detection 273(1983)245

HPLC method for determination of sulfapyridine in human saliva using post-column, in-line derivatization with fluorescamine 273(1983)464

Postcolumn derivatization of catecholamines with 2-cyanoacetamide for fluorimetric monitoring in HPLC 274(1983)45

Determination of chloroquine and its major metabolite in blood using perfluoroacylation followed by fused-silica capillary GC with nitrogen-sensitive detection 274(1983)111

A simplified method for the GC determination of pethidine and norpethidine after derivatization with trichloroethyl chloroformate 274(1983)355

Analysis of D-penicillamine in plasma by fluorescence derivatisation with N-[*p*-(2-benzoxazolyl)-phenyl] maleimide and HPLC 275(1983)89

Analysis of 1,2-diols of linoleic, α-linolenic and arachidonic acid by GC-MS using cyclic alkyl boronic esters 275(1983)245

Desethylchloroquine
Distribution of chloroquine and its metabolite desethyl-chloroquine in human blood cells and its implication for the quantitative determination of these compounds in serum and plasma 272(1983)137

Determination of chloroquine and its major metabolite in blood using perfluoroacylation followed by fused-silica capillary GC with nitrogen-sensitive detection 274(1983)111

Desmethyldoxepin
Sensitive and quantitative determination of plasma doxepin and desmethyldoxepin in chronic pain patients by GC and MS 273(1983)436

Desmethylmisonidazole
Simultaneous determination of some radiosensitizing and chemotherapeutic drugs in plasma by TLC 275(1983)223

Desmethyl nortriptyline
Determination of desmethyl nortriptyline in plasma by GC before and after treatment with salicylaldehyde 274(1983)350

Desolvation chamber
Optimization of the instrumental parameters of a combined liquid chromatography-mass spectrometer, coupled by an interface for direct liquid introduction. IV. A new desolvation chamber for droplet focusing or Townsend discharge ionization 271(1983)43

Desorption
Single temperature desorption from porous catalysts 254(1983)1

Temperature-programmed desorption of organic bases on NaY zeolite under chromatographic conditions 259(1983)283

Desorption/chemical ionization
Survey of ionization methods with emphasis on LC-MS 251(1982)93

LC-MS of polar lipids. Comparison of on-line method using direct liquid introduction interface with off-line method using desorption/chemical ionization 251(1982)189

Detection procedures, TLC
Improved cost effective thin-layer detection techniques for routine surveillance of commonly abused drugs in drug abuse urine screening and proficiency testing programs with built-in quality assurance 267(1983)109

Detectors
Photometric detection at 185 nm for HPLC with either isocratic or gradient elution. Assay of mixtures of polyethylene glycol oligomers 255(1983)463

Evaluation and comparison of reaction detectors 255(1983)545

Detectors, GC
Thermal conductivity detector: theory and numerical model 256(1983)1

Design of a combined photoionization detector and photoionization-based electron-capture detector 259(1983)205

Trace analysis for organic nitro compounds by GC-electron-capture/photoionization detection methods 260(1983)347

Effect of detector temperature on flame photometric detector behaviour 262(1983)77

GC-circular dichroism system for detection of optically active substances 262(1983)321

Phosphorus response in a hydrogen-atmosphere flame ionization detector for GC 264(1983)149

Improved radioactivity detector for fused-silica capillary columns 264(1983)393

Effect of applied fields on positive ions in the pulsed electron-capture detector 265(1983)145

Analysis of butyltin compounds by GC. Comparison of flame photometric and atomic absorption spectrophotometric detectors 268(1983)99

A Variac-driven electron-capture detector 268(1983)273

Comparison of optimized GC detectors for packed and capillary columns 270(1983)135

Hydrocarbon and water quenching of the flame photometric detector response 270(1983)145

Detectors, isotachophoresis
On-line radiometric detection in capillary isotachophoresis. I. Preliminary experiments 258(1983)238

Simple cell for conductimetric detection in capillary isotachophoresis 267(1983)67

Dual-wavelength UV-adsorption detection in capillary isotachophoresis 267(1983)75

Some quantitative aspects of UV detection in capillary isotachophoresis as applied to bioavailability studies 273(1983)228

Detectors, LC
New ways to increase the specificity of detection in LC (Review) 251(1982)1

Improved interface for LC-electron-capture detector coupling. I 252(1982)101

Ion chromatography with potentiometric detection 252(1982)113

Raman spectroscopic detection of haemoproteins in the eluate from HPLC 254(1983)285

Amperometric detection of amino acids in HPLC with a copper electrode 256(1983)17

Minimization of extra-column effects with microbore columns using electrochemical detection 258(1983)57

The development of a multiwavelength detector for HPLC 259(1983)59

Coupling of a high-performance liquid chromatograph with a Fourier transform IR detector 259(1983)211

Preliminary evaluation of HPLC with photoconductivity detection for the determination of selected pesticides as potential food contaminants 259(1983)227

Densimetric detection in GPC. VII. Calculation of molecular weight distributions using a programmable pocket calculator 259(1983)381

Sequential differential detection in LC 260(1983)363

Use of electrochemical detection in normal-phase HPLC 261(1983)43

Chlorine-selective monitoring for HPLC with a Hall electrolytic conductivity detector 261(1983)213

Effect of various measuring techniques on the response of a polarographic HPLC detector 262(1983)85

Rapid separation and measurement of rat urinary kallikrein by HPLC with a continuous flow enzyme detector 264(1983)249

Use of light scattering as a detector principle in LC 265(1983)1

On-line diode array UV-visible spectrometry in screening for drugs and drug metabolites by HPLC 267(1983)329

Current amplification in dual electrochemical detection for micro HPLC 268(1983)157

Applications of three-dimensional UV absorbance-HPLC patterns for the analysis of plant extracts 268(1983)522

Applications of rapid-scanning multichannel detectors in chromatography. Plenary lecture 273(1983)3

Evaluation of reductive amperometric detection in the LC determination of antineoplastic platinum complexes 273(1983)301

Determination of catecholamines in human serum by micro HPLC with micro precolumn and dual electrochemical detection 275(1983)271

Detectors, TLC
Characterization of a scanning densitometer for HPTLC 261(1983)55

Thermal-UV method for differential detection and recovery of organic compounds in TLC 265(1983)193

Detector temperature
Effect of detector temperature on flame photometric detector behaviour 262(1983)77

Detergents
Effect of electroosmosis on detection in isotachophoresis 260(1983)241

Dextran
Comparison of poly(ethylene oxide), pullulan and dextran as polymer standards in aqueous gel chromatography 256(1983)61

Concentration and temperature effects in GPC 261(1983)33

Dialkyldimethylammonium
Analysis of non-UV absorbing dialkyl-type cationic surfactants by LC with an on-line ion-pair extraction detector 262(1983)293

Dialkyl(2-hydroxyethyl)methylammonium

Analysis of non-UV absorbing dialkyl-type cationic surfactants by LC with an on-line ion-pair extraction detector 262(1983)293

Dialkylmethylpoly(oxyethylene)ammonium
Analysis of non-UV absorbing dialkyl-type cationic surfactants by LC with an on-line ion-pair extraction detector 262(1983)293

Dialkyltin compounds
HPLC determination of dialkyltin homologues using fluorescence detection 258(1983)189

Diamantane
HPLC of halogeno derivatives of adamantane and diamantane 270(1983)199

Diamines
Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

4,4'-Diaminodiphenylmethane
Determination of 4,4'-diaminodiphenylmethane in blood by GLC with electron-capture detection 262(1983)367

1,3-Diaminopropane
Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

Diaminopropionic acids
Differentiation of N^{α}- and N^{β}-substituted α, β-diaminopropionic acids 256(1983)372

3,4-Diaminopyridine
HPLC determination of 4-aminopyridine and 3,4-diaminopyridine in rat cerebrospinal fluid and serum 272(1983)221

Diamorphine
see Heroin

1,4-Diazabicyclo[2,2,2]octane
Simultaneous determination of amines and isocyanates in working atmospheres by GLC 261(1983)253

Diaziquone
Counter-current chromatography of diaziquone by a horizontal flow-through coil planet centrifuge 252(1982)283

Dibasic substances
Multifactor model for the optimization of selectivity in reversed-phase chromatography 258(1983)11

Dibenzoquinolines
Separation of azaarenes by polyamide TLC and the relationship between their basicity and R_F values 254(1983)35

1,2-Dibromoethane
Evaluation of a Tenax GC sampling procedure for collection and analysis of vehicle-related aromatic and halogenated hydrocarbons in ambient air 252(1982)147

2,6-Dibromoquinone-4-chlorimide
Post-column derivatization of vitamin B_6 using 2,6-dibromoquinone-4-chlorimide 267(1983)414

Dicamba
Determination of 2-methoxy-3,6-dichlorobenzoic acid, 2,4-dichlorophenoxyacetic acid and 2-methyl-4-chlorophenoxyacetic acid in emulsifiable pesticide concentrates by HPLC 259(1983)181

Dicarboxylic acids
Isotachophoretic determination of mobility and pK_a by means of computer simulation. II. Evaluation of m_0 and pK_a of 65 anions 252(1982)49

Dichloroacetates
GC of homologous esters. XX. Capillary column studies of alkyl acetates, chloroacetates, dichloroacetates and trichloroacetates 256(1983)221

3,5-Dichloroaniline
Reversed-phase HPLC of pesticides. VII. Analysis of Vinclozolin, Iprodione, Procymidone, Dichlozolinate and their degradation product 3,5-dichloroaniline on white must and wine extracts 256(1983)176

3,4-Dichloroaniline
Simplified heptafluorobutyrylation on linuron and its metabolite 3,4-dichloroaniline 262(1983)328

1,2-Dichloroethane
Evaluation of a Tenax GC sampling procedure for collection and analysis of vehicle-related aromatic and halogenated hydrocarbons in ambient air 252(1982)147

β,β'-Dichloroethyl sulphide
Detection of β,β'-dichloroethyl sulphide on thin-layer chromatograms 264(1983)445

Dichloromethane
TLC separation and spectra of oxygenated benzo[*a*]pyrene derivatives in dichloromethane 264(1983)453

1,3-Dichloropropene
Determination of *cis*- and *trans*-1,3-dichloropropene in whole rat blood by GC and GC-chemical ionization MS with selected ion monitoring 265(1983)277

Dichlozolinate
Reversed-phase HPLC of pesticides. VII. Analysis of Vinclozolin, Iprodione, Procymidone, Dichlozolinate and their degradation product 3,5-dichloroaniline on white must and wine extracts 256(1983)176

Diethanolamine
GC technique for analysing partially degraded diethanolamine solutions 267(1983)373

Diethylaminoethanol
Determination of adiphenine, diphenylacetic acid and diethylaminoethanol by HPLC 257(1983)395

Diethyl disulphide
Modification of the determination of organic compounds by headspace GC after sorption on solid sorbents and liquid desorption 262(1983)199

Diethyldithiocarbamates
Reversed-phase HPLC of diethyldithiocarbamate complexes using radial compression columns 252(1982)185

Diethylenetriamine
HPLC of sugar mixtures containing xylose and arabinose on primary amino-bonded phases 253(1982)49

Diethyl ether
Mixed solvents in GLC. Activity coefficients for diethyl ether in squalane and dinonyl phthalate mixtures at 303°K 262(1983)33

Diethyl malonate
Rapid, sensitive, GC determination of diethyl malonate and diethyl succinate in water facilitated by sorbent-tube preconcentration 256(1983)363

Diethylstilboestrol
Sensitive and specific post-column fluorimetric determination of diethylstilboestrol residues in extracts of urine and animal tissues at the 1-ppb level 265(1983)239

Diethyl succinate
Rapid, sensitive, GC determination of diethyl malonate and diethyl succinate in water facilitated by sorbent-tube preconcentration 256(1983)363

Difenacoum
Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. I. Fluorescence detection using post-column techniques 270(1983)267

Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. II. Fluorescence detection using ion-pair chromatography 270(1983)277

Differential detectors
Sequential differential detection in LC 260(1983)363

Differential sorption enthalpies
Utilization of the solution-of-groups concept in GLC 258(1983)23

Diffusion coefficients
Temperature variation of gas diffusion coefficients measured by the reversed-flow sampling technique 254(1983)15

Diffusivity
Use of chromatographic data to determine the molecular weight of a solute eluted from an LC column 270(1983)29

Diflunisal
Sample preparation by salts precipitation and quantitation by HPLC with UV detection of selected drugs in biological fluids 257(1983)345

Digallic acid
Analysis of gallic, digallic and trigallic acids in tannic acids by HPLC 265(1983)363

Digitalis glycosides
HPLC system for a wide range of naturally occurring glycosides 258(1983)135

Separation and determination of cardiac glycosides in *Digitalis purpurea* leaves by micro HPLC 258(1983)147

HPLC of some digitalis glycosides and their aglycones on chemically bonded phases 268(1983)237

Digitoxin
Separation and determination of cardiac glycosides in *Digitalis purpurea* leaves by micro HPLC 258(1983)147

Dihydrobiopterin
Post-column oxidation of reduced biopterins for fluorescence detection 254(1983)327

Dihydrocarvone
GC-circular dichroism system for detection of optically active substances 262(1983)321

Dihydroergocristine
Determination of dihydroergocristine and dihydroergotamine in plasma by HPLC with fluorescence detection 272(1983)401

Dihydroergotamine
Determination of dihydroergocristine and dihydroergotamine in plasma by HPLC with fluorescence detection 272(1983)401

7,8-Dihydro-6-hydroxymethylpterin pyrophosphokinase
New method for the purification of 7,8-dihydro-6-hydroxymethylpterin pyrophosphokinase (E.C. 2.7.6.3) from *Escherichia coli*. Application of hydrophobic interaction chromatography and flat-bed isoelectric focusing 260(1983)206

Dihydropyridines
Separation of N-carbomethoxy-1,2- and -1,4-dihydropyridines by TLC and CC 262(1983)431

Dihydroxybenzylamine
Electrochemical detection for plasma catecholamines: apparent loss of dihydroxybenzylamine in dog plasma 270(1983)366

3,4-Dihydroxyphenylacetic acid
Simultaneous multiple electrode LC-electrochemical assay for catecholamines, indoleamines and metabolites in brain tissue 255(1983)533

MS of biogenic catecholamine ion pairs by direct liquid introduction 271(1983)83

24,25-Dihydroxyvitamin D
HPLC determination of 24,25-dihydroxyvitamin D_3 in serum 275(1983)418

Diisopropyl ether
Solution and adsorption thermodynamics in propylene glycol by GC. A comparative study with other polyhydroxylated solvents 259(1983)413

Diisopropyl fluorophosphate
Determination of urokinase activity by HPLC with radioisotope detection 253(1982)81

β-Diketones
Behaviour of aromatic β-diketones and their metal chelates on silica gel layers 270(1983)313

Diltiazem
Determination of optical isomers in diltiazem hydrochloride by HPLC 253(1982)101

HPLC analysis of diltiazem and its metabolite in plasma 272(1983)149

GC determination of diltiazem in plasma (in French) 272(1983)385

Dimedone
Trace analysis of aldehydes by reversed-phase HPLC and precolumn fluorigenic labeling with 5,5-dimethyl-1,3-cyclohexanedione 256(1983)243

Dimethoxyanthracenesulphonate
Automated determination of drugs in blood samples after enzymatic hydrolysis using precolumn switching and post-column reaction detection 255(1983)79

Dimethylaminoazobenzene sulphonyl chloride
Sphingosine determination at the picomole level using dimethylaminoazobenzene sulphonyl chloride 272(1983)21

2,2-Dimethylchromenes
Chromatographic analysis of 2,2-dimethylchromene derivatives 261(1983)311

5,5-Dimethyl-1,3-cyclohexanedione
Trace analysis of aldehydes by reversed-phase HPLC and precolumn fluorigenic labeling with 5,5-dimethyl-1,3-cyclohexanedione 256(1983)243

Dimethyldiallylammonium chloride
Determination of organic ionic compounds by LC with indirect photometric detection 259(1983)519

Dimethyl disulphide
Modification of the determination of organic compounds by headspace GC after sorption on solid sorbents and liquid desorption 262(1983)199

Dimethylformamide
Separations of position-isomeric aromatic sulphonates by high-voltage electrophoresis in dimethylformamide (in German) 268(1983)477

Dimethylnaphthalenes
Relative abundance of dimethylnaphthalene isomers in crude oils 267(1983)367

2,4-Dimethylphenol
Nitrate analysis by GLC using the nitration of 2,4-dimethylphenol in sulphuric acid 270(1983)243

2,6-Dimethylpyridine
Temperature-programmed desorption of organic bases on NaY zeolite under chromatographic conditions 259(1983)283

Dimethyl sulphide
Modification of the determination of organic compounds by headspace GC after sorption on solid sorbents and liquid desorption 262(1983)199

Dimethylurea
HPLC of urea and related compounds with post-column derivatization 252(1982)209

Dinitrophenols
Extremely low electrophoretic mobility of picric acid in acetyl cellulose paper 252(1982)301

2,4-Dinitrophenyl thioethers
Separation and determination of 2,4-dinitrophenyl thioethers by reversed-phase HPLC 257(1983)170

3,5-Dinitrophenylurethanes
HPLC separation of chiral alcohols on chiral stationary phases 265(1983)117

3,6-Dinitrophthalic anhydride
Derivatizing reagents for HPLC detection of peptides at the picomole level 266(1983)401

Dinonyl phthalate
Mixed solvents in GLC. Activity coefficients for diethyl ether in squalane and dinonyl phthalate mixtures at 303°K 262(1983)33

Dinucleoside monophosphates
Quantitative structure-retention relationships for dinucleoside monophosphates as a function of pH 253(1982)252

Dioctyl sulphosuccinate
Determination of organic ionic compounds by LC with indirect photometric detection 259(1983)519

Diode-array detectors
On-line diode array UV-visible spectrometry in screening for drugs and drug metabolites by HPLC 267(1983)329

Applications of rapid-scanning multichannel detectors in chromatography. Plenary lecture 273(1983)3

1,2-Diols
Analysis of 1,2-diols of linoleic, α-linolenic and arachidonic acid by GC-MS using cyclic alkyl boronic esters 275(1983)245

Dioxane
Use of various organic modifiers in TLC on chemically bonded phases 265(1983)105

Dioxins
GC-MS analysis of polychlorinated dibenzo-*p*-dioxins and organic compounds in high-temperature fly ash from municipal waste incineration 265(1983)79

Chemical changes of organic compounds in chlorinated water. VI. GC and MS studies of the reactions of phenylphenols with hypochlorite in dilute aqueous solution 265(1983)201

GC-MS study on the formation of polychlorinated dibenzo-*p*-dioxins and polychlorobenzenes from polyvinyl chloride in a municipal incinerator 270(1983)227

Quantitative aspects in the determination of polychlorinated dibenzo-*p*-dioxins by high-resolution GC-MS 270(1983)235

Dipeptides
Operating parameters in high-performance displacement chromatography 255(1983)273

HPTLC of diastereomeric di- and tripeptides on ready-for-use plates of silanized silica gel and on ammonium tungstophosphate layers 265(1983)328

Diphenhydramine
Analysis of some commercial preparations for migraine treatment using ion-pair HPLC with addition of salts to the mobile phase 261(1983)345

Diphenylacetic acid
Determination of adiphenine, diphenylacetic acid and diethylaminoethanol by HPLC 257(1983)395

Diphenyldichlorosilane
Thermostable deactivation reagents for capillary column preparation 260(1983)168

Diphtheria toxin
Rapid purification of diphtheria toxin by Phenyl Sepharose and DEAE-cellulose chromatography 268(1983)543

Dipotassium hydrogen phosphate
Characterization of modified alumina as an adsorbent for GSC. Modification with dipotassium hydrogen phosphate 268(1983)359

Diquat
HPLC of paraquat and diquat in urine with rapid sample preparation involving ion-pair extraction on disposable cartridges of octadecyl-silica 255(1983)483

Direct liquid introduction interface
LC-MS in the pharmaceutical industry: objectives and needs 251(1982)141

Optimization of the instrumental parameters of a combined liquid chromatograph-mass spectrometer, coupled by an interface for direct liquid introduction. III. Why the solvent should not be removed in LC-MS interfacing methods 251(1982)153

LC-MS of polar lipids. Comparison of on-line method using direct liquid introduction interface with off-line method using desorption/chemical ionization 251(1982)189

Application of a combined LC-MS instrument using an interface for direct liquid introduction 251(1982)203

Direct liquid introduction micro-LC-MS coupling. Optimization of droplet desolvation and instrumental parameters for high sensitivity 264(1983)357

Optimization of the instrumental parameters of a combined liquid chromatography-mass spectrometer, coupled by an interface for direct liquid introduction. IV. A new desolvation chamber for droplet focusing or Townsend discharge ionization 271(1983)43

Experiments with the combination of a micro liquid chromatograph and a chemical ionization quadrupole mass spectrometer, using a capillary interface for direct liquid introduction. Some theoretical considerations concerning the evaporation of liquids from capillaries into vacuum 271(1983)71

Disaccharides
Isothermal capillary column GC of trimethylsilyl disaccharides 254(1983)157

Analysis of phenyldimethylsilyl derivatives of monosaccharides and their role in HPLC of carbohydrates 264(1983)99

Disopyramide
Direct LC resolution of racemic drugs using α_1-acid glycoprotein as the chiral stationary phase 269(1983)71

Simultaneous determination of disopyramide and its mono-N-dealkyl metabolite in plasma and urine by HPLC 274(1983)219

Disperse dyes
TLC of disperse dyes on polyamide sheets 267(1983)448

TLC investigation of the interaction between dispersed dyes and hydrotropic agents 270(1983)348

Dispersion
Low-dispersion connecting tubes for LC systems 268(1983)169

Displacement chromatography
Operating parameters in high-performance displacement chromatography 255(1983)273

High-performance displacement chromatography of nucleic acid fragments in a tandem enzyme reactor-liquid chromatograph system 266(1983)319

Dissociation constants
p*K* Values of phosphate buffer components in methanol-water reversed-phase eluents 257(1983)384

Distamycin A
HPLC of distamycin A and its primary decomposition products as well as some synthetic analogues 268(1983)347

Distillates
Quantitative analysis of hydrocarbons by structural group type in gasolines and distillates. I. GC 256(1983)393

Quantitative analysis of hydrocarbons by structural group type in gasolines and distillates. III. Combined use of LC and GC 264(1983)19

Distribution coefficients
Dependence of the calcium distribution coefficient on a strongly acidic cation-exchange resin on the anion of strong acids and their lithium salts 262(1983)211

Disulphoton
Rapid method for the detection of oxygen analogues of fenthion, disulphoton and phorate on thin-layer plates 268(1983)352

Dithiocarbamates
Reversed-phase HPLC of diethyldithiocarbamate complexes using radial compression columns 252(1982)185

Chromatographic study of the reaction of mercury(II) and silver(I) ions with nickel dithiocarbamate complexes derived from some aromatic amine drugs 254(1983)123

GC of tributyltin(IV) N,N-dialkyldithiocarbamates 256(1983)465

Dithiocarbamic acids
LC of metal complexes of N-disubstituted dithiocarbamic acids. V. Determination of equilibrium and rate constants for ligand-exchange reactions by HPLC 258(1983)223

DNA
Purification of spin-labelled DNA by hydroxyapatite chromatography 260(1983)177

Operational variables in high-performance gel filtration of DNA fragments and RNAs 266(1983)341

DNA restriction fragments
Separation of DNA restriction fragments by high-performance ion-exchange chromatography 265(1983)342

Dodecyl benzenesulphonates
Determination of sodium linear dodecyl benzene sulfonate and sodium cumene sulfonate in mixtures by LC 265(1983)121

N-Dodecylpyridinium
HPTLC of indole derivatives on layers of Sil C_{18}-50 untreated or impregnated with N-dodecylpyridinium chloride and on ammonium tungstophosphate 260(1983)383

Dolichol monophosphate glucose
Separation of dolichol monophosphate mannose and dolichol monophosphate glucose by TLC 262(1983)299

Dolichol monophosphate mannose
Separation of dolichol monophosphate mannose and dolichol monophosphate glucose by TLC 262(1983)299

L-DOPA
Determination of the enantiomeric purity of levodopa, methyldopa, carbidopa and tryptophan by use of chiral mobile phase HPLC 257(1983)317

DOPA decarboxylase
Separation by different methods of soluble proteins isolated from sympathetic splenic nerves 259(1983)87

Dopamine
Sensitive and specific radioenzymatic assay for norepinephrine, epinephrine and dopamine based on the TLC separation of their Dns-O-methyl derivatives 254(1983)257

Simultaneous multiple electrode LC-electrochemical assay for catecholamines, indoleamines and metabolites in brain tissue 255(1983)533

Use of HPLC to study the caeruloplasmin-catalysed oxidation of biogenic amines. I. Single substrate systems 256(1983)71

Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

Use of HPLC to study the caeruloplasmin-catalysed oxidation of biogenic amines. II. Multiple substrate systems 257(1983)53

MS of biogenic catecholamine ion pairs by direct liquid introduction 271(1983)83

Postcolumn derivatization of catecholamines with 2-cyanoacetamide for fluorimetric monitoring in HPLC 274(1983)45

Dopamine sulphate
Determination of conjugated compounds by LC with electrochemical detection using post-column hydrolysis. Application to dopamine sulfate isomers 255(1983)475

Determination of dopamine-O-sulfate and norepinephrine-O-sulfate isomers and serotonin-O-sulfate by HPLC using dual-electrode electrochemical detection 264(1983)119

Doping
Effect of ligand doping on the GC of the trifluoroacetylacetonates of chromium(III), aluminium(III) and iron(III) 256(1983)455

Doping agents
Pentafluorobenzoyl derivatives of doping agents. I. Extractive benzoylation and GC with electron-capture detection of primary and secondary amines 273(1983)141

Doxepin
Sensitive and quantitative determination of plasma doxepin and desmethyldoxepin in chronic pain patients by GC and MS 273(1983)436

Doxorubicin
see Adriamycin

Doxycycline
Analysis and quantitation of a metabolite of doxycycline in mice, rats, and humans by HPLC 274(1983)255

Dragendorff's reagent
Detection of crown ethers by means of Dragendorff's reagent 269(1983)40

Droplet desolvation
Direct liquid introduction micro-LC-MS coupling. Optimization of droplet desolvation and instrumental parameters for high sensitivity 264(1983)357

Drug monitoring
Analytical strategies for therapeutic monitoring of drugs and metabolites in biological fluids. Plenary lecture 273(1983)19

Drugs
Automated determination of drugs in blood samples after enzymatic hydrolysis using precolumn switching and post-column reaction detection 255(1983)79

Advances in fused-silica column technology for the analysis of underivatized drugs 257(1983)211

Quantitative determination of a mixture of extracts of drugs from volatile oils by HPLC (in German) 262(1983)285

On-line diode array UV-visible spectrometry in screening for drugs and drug metabolites by HPLC 267(1983)329

Colour reactions of iodic acid as reagent for identifying drugs by TLC 268(1983)528

Determination of drugs in biological samples by TLC-tandem MS 271(1983)107

Drugs of abuse
Simultaneous GC analysis of drugs of abuse on two fused-silica columns of different polarities 254(1983)179

More economical use of high-performance thin-layer plates for chromatographic screening of illicit drug samples 265(1983)285

Use of HPLC to quantitate the opiate and sugar content of illicit heroin preparations 265(1983)293

Improved cost effective thin-layer detection techniques for routine surveillance of commonly abused drugs in drug abuse urine screening and proficiency testing programs with built-in quality assurance 267(1983)109

Dyes
TLC of natural dyes (in French) 261(1983)273

TLC of disperse dyes on polyamide sheets 267(1983)448

TLC investigation of the interaction between dispersed dyes and hydrotropic agents 270(1983)348

Dyes permit immediate evaluation of HPLC system performance. Application to HPLC with radioimmunoassay detection 275(1983)407

Dynamically coated columns
Dynamically coated columns and conductivity detection for trace determination of organic anions by ion chromatography 262(1983)311

Dynamically modified silica
HPLC on dynamically modified silica. IV. Effects of variations of pH, ionic strength and buffer composition in eluents containing cetyltrimethylammonium bromide 270(1983)77

E

Ecarin
Fractionation of *Echis carinatus* venom by affinity chromatography on immobilized lectins 260(1983)522

Ecdysteroids
Efficient isolation of phytoecdysones from *Ajuga* plants by HPLC and droplet counter-current chromatography 257(1983)157

Effluents, GC
Elemental analysis of GC effluents (Review) 251(1982)35

Elastase
Proteinase inhibitory assays of serum using high-performance size exclusion chromatography 275(1983)283

Elastin
Purification of salt-soluble cross-linked elastin by hydrophobic interaction chromatography 275(1983)31

Electrochemical detector
Minimization of extra-column effects with microbore columns using electrochemical detection 258(1983)57

Use of electrochemical detection in normal-phase HPLC 261(1983)43

Current amplification in dual electrochemical detection for micro HPLC 268(1983)157

Electrodesorption
Isotachophoresis electrodesorption of proteins from an affinity adsorbent on a microscale 273(1983)117

Electrodynamic ionization
Optimization of the instrumental parameters of a combined liquid chromatograph-mass spectrometer, coupled by an interface for direct liquid introduction. III. Why the solvent should not be removed in LC-MS interfacing methods 251(1982)153

Electrohydrodynamic ionization
Survey of ionization methods with emphasis on LC-MS 251(1982)93

Electron-capture detector
Improved interface for LC-electron-capture detector coupling. I 252(1982)101

Design of a combined photoionization detector and photoionization-based electron-capture detector 259(1983)205

Trace analysis for organic nitro compounds by GC-electron-capture/photoionization detection methods 260(1983)347

Effect of applied fields on positive ions in the pulsed electron-capture detector 265(1983)145

A Variac-driven electron-capture detector 268(1983)273

Electroosmosis
Effect of electroosmosis on detection in isotachophoresis 260(1983)241

Electrophoresis
High-performance electrophoresis: the electrophoretic counterpart of HPLC 270(1983)1

Electrophoretic titration curves
Use of electrophoretic titration curves for predicting optimal chromatographic conditions for fast ion-exchange chromatography of proteins 266(1983)409

Protein titration curves using modified cellulose acetate membranes 275(1983)428

Electrospraying
Optimization of the instrumental parameters of a combined liquid chromatograph-mass spectrometer, coupled by an interface for direct liquid introduction. III. Why the solvent should not be removed in LC-MS interfacing methods 251(1982)153

Elemental analysis
Elemental analysis of GC effluents (Review) 251(1982)35

Multielemental microanalysis of organic compounds using GC 261(1983)265

Elemental microanalysis of organic and organometallic compounds using pyrolysis-GC 268(1983)219

Enantiomer separation
Direct LC separation of enantiomers on immobilized protein stationary phases. II. Optical resolution of a sulphoxide, a sulophoximine and a benzoylamino acid 252(1982)297

Determination of optical isomers in diltiazem hydrochloride by HPLC 253(1982)101

Separation of chiral ketones by enantioselective GC 253(1982)267

GC separation of chrysanthemic acid ester enantiomers on a novel chiral stationary phase 254(1983)282

Retention behavior of amino acid enantiomers in reversed-phase LC 255(1983)41

High-performance ligand-exchange chromatography of α-amino acid enantiomers. Studies on monomerically bonded 3-(L-prolyl)- and 3-(L-hydroxyprolyl)propyl silicas 255(1983)51

Platinum complexes in reversed- and normal-phase chromatography. Analytical- and preparative-scale separations of enantiomeric olefins 255(1983)311

GC separation of enantiomers of 0-acyl alcohols 256(1983)154

HPLC separation of enantiomers on (*S*)-1-(α-naphthyl)ethylamine bonded to silica gel 257(1983)111

Resolution of enantiomers of amino acid derivatives by HPLC in a silica gel bonded chiral amide phase 257(1983)118

Chiral phases derived from XE-60 for glass capillary GC of amino acid enantiomers 258(1983)35

Chiral-phase HPLC separation of enantiomers of pyrethroid insecticide esters derived from α-cyano-3-phenoxybenzyl alcohol 258(1983)175

Enantiomeric resolution of 1-[2-(3-hydroxyphenyl)-1-phenylethyl]-4-(3-methyl-2-butenyl)piperazine by reversed-phase HPLC using a chiral mobile phase 258(1983)276

GLC resolution of sugar enantiomers as diastereoisomeric methylbenzylaminoalditols 259(1983)159

GC separation of enantiomeric sugars as diastereomeric trifluoroacetylated (-)-bornyloximes 259(1983)164

Multiple inverse isotope dilution assay for the stereospecific determination of *R*(+)- and *S*(-)-oxprenolol in biological fluids 259(1983)311

Application of HPLC chiral stationary phases to pharmaceutical analysis. Direct

enantiomeric resolution of amide derivatives of 1-phenyl-2-aminopropane 259(1983)465

HPLC separation of enantiomers on (1*R*,3*R*)-*trans*-chrysanthemic acid and its amide derivatives bonded to silica gel 259(1983)487

Direct resolution of enantiomers of 2- and 3-hydroxy acid alkyl esters by fused-silica capillary GC 260(1983)63

Enantiomeric resolution of amino acids by high-performance ligand-exchange chromatography using histidine-bonded silica gel 260(1983)75

Comparison of three derivatives for the enantiomeric separation of chiral alcohols and the absolute configuration of *Myrmica* ant 3-octanol 260(1983)411

Application of HPLC chiral stationary phases to pharmaceutical analysis. Resolution of ephedrine 261(1983)123

High-performance ligand-exchange chromatography of enantiomers. Studies on polystyrene-type chiral phases bonded to microparticulate silicas 261(1983)223

Ligand-exchange chromatography of amino acid racemates on polystyrene sorbents containing L-methionine-*d*-sulphoxide or L-methionine-*l*-sulphoxide groups 261(1983)301

Clay CC for optical resolution of tris(chelated) and bis(chelated) complexes on a Λ-Ru(1,10-phenanthroline$_3^{2+}$-montmorillonite column 262(1983)41

Determination of amino acid enantiomers by two-column GC with valveless column switching 262(1983)352

Direct LC separation of enantiomers on immobilized protein stationary phases. III. Optical resolution of a series of N-aroyl D,L-amino acids by HPLC on bovine serum albumin covalently bound to silica 264(1983)63

Direct resolution of enantiomers via TLC using a chiral adsorbent 264(1983)154

Effect of the skeletal structure of sorbents containing L-hydroxyproline groups on enantioselectivity in ligand-exchange chromatography of amino acid racemates 264(1983)377

HPLC of enantiomers on (*S*)-2-(4-chlorophenyl)isovaleric acid and its amide derivatives bonded to silica gel 265(1983)111

HPLC separation of chiral alcohols on chiral stationary phases 265(1983)117

Paper electrophoretic study of ion-pair formation. XIV. Resolution of optically active cobalt(III) complexes 265(1983)131

Chiroselective complexation based on hydrogen bonds for the resolution of D- and L-amino acid derivatives by silica gel LC 267(1983)11

Resolution of norephedrine as its 2-oxazolidone derivative: enantiomeric separation on a chiral HPLC stationary phase and preparative regeneration of the resolved isomers 268(1983)107

Enantiomer separation of polyols and amines by enantioselective GC 269(1983)19

Direct LC resolution of racemic drugs using α_1-acid glycoprotein as the chiral stationary phase 269(1983)71

Inclusion chromatography of enantiomers of indole alkaloids on a cyclodextrin polymer stationary phase 270(1983)127

GC resolution of 2-hydroxycarboxylic acid enantiomers 270(1983)159

Chiral stationary phases for the GLC separation of enantiomers (Review) 271(1983)309

GLC resolution and assay of tocainide enantiomers using a chiral capillary column and study of their selective disposition in man 274(1983)129

Use of O-((-)-menthyl)-N,N'-diisopropylisourea for the preparation of diastereomeric menthyl esters for the chromatographic resolution of enantiomeric carboxylic acids 275(1983)161

β-Endorphin-related peptides
Chracterization of β-endorphin immunoreactive peptides in rat pituitary and brain by coupled gel and reversed-phase HPLC 266(1983)163

β-Endorphins
Analysis of enkephalins, β-endorphins and small peptides in their sequences by highly sensitive HPLC with electrochemical detection: implications in opioid peptide metabolism 267(1983)191

Enkephalins
Determination of Leu-enkephalin degradation by a soluble enzyme preparation from calf-brain striatum using reversed-phase HPLC 258(1983)165

HPLC of tyrosine-related peptides with electrochemical detection 262(1983)420

Simple, efficient ternary solvent system for the separation of luteinizing hormone-releasing hormone and enkephalins by reversed-phase HPLC 266(1983)67

Analysis of enkephalins, β-endorphins and small peptides in their sequences by highly sensitive HPLC with electrochemical detection: implications in opioid peptide metabolism 267(1983)191

Enterobacteria
Head-space GLC for the rapid laboratory diagnosis of urinary tract infections caused by enterobacteria 274(1983)27

Enterotoxins
HPLC of staphylococcal enterotoxin B 266(1983)179

Enzymatic activity
Microbore column exclusion chromatographic method for studying protein association and its relation with enzymatic activity 273(1983)95

Enzymes
see also Proteins

Determination of urokinase activity by HPLC with radioisotope detection 253(1982)81

Rapid preparation and purification of alkaline phosphatase and ^{125}I-labeled antibody by minicolumn gel centrifugation chromatography 254(1983)219

Affinity chromatography of acetylcholinesterase from *Electrophorus electricus* electroplax. Investigations of 9-aminoalkylacridine affinity ligands 257(1983)275

Comparative affinity chromatography of acetylcholinesterases from five vertebrate species 257(1983)285

Studies on lectins. LIV. Affinity electrophoresis of lectins and trypsin on affinity gels prepared from Sephadex derivatives incorporated into a polyacrylamide gel matrix 257(1983)297

Purification of human erythrocyte phosphoglycerate kinase by dye ligand affinity chromatography 258(1983)213

Application of affinity partitioning in an aqueous two-phase system to the investigation of triazine dye-enzyme interactions 259(1983)97

Affinity chromatography of bile salt 7α-, 7β- and 12α-hydroxysteroid dehydrogenases on immobilized Procion Red and Cibacron Blue Sepharose 4B columns 259(1983)154

Model study of hydrophobic interactions of α- and β-trypsin and α-chymotrypsin 259(1983)255

Rapid technique for the radiometric assay of phospholipase A_2 259(1983)338

Isolation of the prothrombin-converting enzyme from fibrinogenolytic enzymes of *Echis carinatus* venom by chromatographic and electrophoretic methods 259(1983)473

TLC bioassay of iridoid and secoiridoid glucosides with a fungitoxic aglucone moiety using β-glucosidase and the fungus *Penicillium expansum* as a test organism 259(1983)522

New method for the purification of 7,8-dihydro-6-hydroxymethylpterin pyrophosphokinase (E.C. 2.7.6.3) from *Escherichia coli*. Application of hydrophobic interaction chromatography and flat-bed isoelectric focusing 260(1983)206

Rapid purification of a ribonuclease from bovine seminal plasma by DNA-affinity chromatography 260(1983)216

Effect of sodium hydroxide on the binding of NADP-isocitrate dehydrogenase to Matrex Gel Red-A 261(1983)134

Affinity chromatography of trypsin on thermally modified casein 261(1983)138

Micro-chromatographic test of transphosphatidylic activity of phospholipase D in algae and other plants 261(1983)324

Rapid molecular weight determination for native glucocerebrosidase from human placenta using HPLC 261(1983)419

Chromatofocusing for separation of β-lactamases. I. Microscale separation of RTEM- and chromosomally mediated β-lactamases of *Escherichia coli* J6-2 262(1983)373

Use of chromatofocusing for separation of β-lactamases. II. β-Lactamase of a characterized *Pseudomonas aeruginosa* strain 262(1983)379

Use of chromatofocusing for separation of β-lactamases. III. β-Lactamases of the *Bacillus cereus* 569/H strain 264(1983)170

Rapid separation and measurement of rat urinary kallikrein by HPLC with a continuous flow enzyme detector 264(1983)249

Separation of deamidated forms of triosephosphate isomerase by chromatofocusing. A comparison of chromatofocusing with column isoelectric focusing 265(1983)126

Preparative high-performance liquid affinity chromatography 266(1983)151

Rapid assay of human plasma carboxypeptidase N by HPLC separation of hippuryl-lysine and its product 266(1983)173

Enzymatic maturation of pro-opiomelanocortin by anterior pituitary granules. Methodological approach leading to definite characterization of cleavage sites by means of HPLC and microsequencing 266(1983)213

Rapid chromatographic method for the isolation of glucose-6-phosphate dehydrogenase from yeast enzyme concentrate 266(1983)265

Purification of trypsin and other basic proteins by high-performance cation-exchange chromatography 266(1983)633

Highly sensitive method for determination of esterase activity of α-chymotrypsin and α-

chymotrypsin-like enzymes using micro HPLC 267(1983)199

Analytical medium-pressure LC of cellulolytic enzymes on Spheron ion exchangers 267(1983)355

LC analysis of α-D-glucose-1-phosphate. Determination of the activity of phosphorylase 268(1983)131

Affinity chromatography study of the interaction of ribonucleotides with bovine pancreatic ribonuclease covalently bound to Sepharose 4B 268(1983)255

Immobilized Bowman-Birk inhibitor for selective isolation of chymotrypsin B from bovine pancreas 269(1983)22

Analysis of sialic acids by GC of the mannosamine derivatives released by the action of N-acetylneuraminate lyase 272(1983)1

Determination of 4-methylumbelliferone after separation from its conjugates by HPLC. Application to lysosomal enzyme activity assays 272(1983)67

Possibilities of study of the human plasma cholinesterase variants by affinity electrophoresis (in French) 273(1983)289

TLC determination of L-asparaginase in the presence of human serum 273(1983)431

A new assay of monoamine oxidase by GC 274(1983)313

A highly sensitive assay for non-specific N-methyltransferase activity in rat tissues by HPLC with electrochemical detection 274(1983)331

Ephedrine
Chromatographic study of the reaction of mercury(II) and silver(I) ions with nickel dithiocarbamate complexes derived from some aromatic amine drugs 254(1983)123

Application of HPLC chiral stationary phases to pharmaceutical analysis. Resolution of ephedrine 261(1983)123

Analysis of some commercial preparations for migraine treatment using ion-pair HPLC with addition of salts to the mobile phase 261(1983)345

Epinephrine
see Adrenaline

Epoxy oligomers
HPLC using flexible fused-silica micro-packed columns 255(1983)349

Epoxy resins
Separation of oligomers by high-performance micro gel permeation chromatography 257(1983)327

Equilibrium constants
Rate and equilibrium studies of the reaction between beryllium oxyacetate and beryllium oxypropionate by GC 252(1982)131

Equilibrium dialysis
Comparison between binding analyses performed by equilibrium dialysis and partitioning in aqueous two-phase systems exemplified by the binding of Cibacron Blue to serum albumin 252(1982)159

Ergot alkaloids
LC-MS in the pharmaceutical industry: objectives and needs 251(1982)141

Determination of dihydroergocristine and dihydroergotamine in plasma by HPLC with fluorescence detection 272(1983)401

Ergotamine
Analysis of some commercial preparations for migraine treatment using ion-pair HPLC with addition of salts to the mobile phase 261(1983)345

Erythromycins
TLC of erythromycins and other macrolides 256(1983)164

HPLC analysis of erythromycins A and B from fermentation broths 269(1983)33

Escherichia
Head-space GLC for the rapid laboratory diagnosis of urinary tract infections caused by enterobacteria 274(1983)27

Essential oils
see also Volatile oils

Estimation of menthone, menthofuran, menthyl acetate and menthol in peppermint oil by capillary GC 253(1982)109

Composition of the essential oil of *Cymbopogon flexuosus* 262(1983)364

Glass capillary GC analysis of oil components extracted from Yuzu (*Citrus junos*) juice 268(1983)336

Thermal decomposition of polyethylene glycol 20M and essential oils in GLC and the effect of traces of oxygen 269(1983)171

Esters
Glass capillary GC of homologous series of esters. II. Separation of homologous series of halogenoethyl esters of aliphatic monocarboxylic acids on OV-101 252(1982)293

GC of homologous esters. XIX. Dihalogenated esters of butanoic and pentanoic acids 253(1982)264

GC of homologous esters. XX. Capillary column studies of alkyl acetates, chloroacetates, dichloroacetates and trichloroacetates 256(1983)221

GC of homologous esters. XXI. Capillary column studies of the chlorinated phenyl acetates 257(1983)267

Glass capillary GC of homologous series of esters. III. Separation of alkyl halogenopropionates and halogenobutyrates on OV-101 262(1983)316

GLC analyses. XVIII. Separation of aliphatic C_1-C_{18} *n*-alkyl esters of butanoic, 2-chlorobutanoic, 3-chlorobutanoic and 4-chlorobutanoic acids with the corresponding alcohols 268(1983)437

GC of homologous esters. XXIII. Capillary column studies of chlorinated methyl propenoates 268(1983)511

Ethanol
Ethanol levels in postmortem body fluids 252(1982)315

Ethimizol
Monitoring of ethimizol and its metabolites in serum or saliva by means of HPLC 273(1983)213

Ethoxyquin
TLC fluorometry of ethoxyquin using Triton X-100 262(1983)340

Ethylamine
GC analysis of bacterial amines as their free bases 274(1983)37

N-Ethylbenzamides
Reversed-phase LC elution characteristics of substituted N-ethylbenzamides 267(1983)277

Ethylbenzene
β-Cyclodextrin as a selective agent for the separation of *o*-, *m*- and *p*-xylene and ethylbenzene mixtures in GLC 261(1983)357

Investigation of the possible oxidation by ozone of organic substrates adsorbed on Tenax 269(1983)179

Ethyl biscoumacetate
HPLC determination of ethyl biscoumacetate in human plasma 272(1983)406

Ethylene oxide
Simultaneous determination of small amounts of hydrochloric and hydrobromic acids by derivatization with ethylene oxide and GC 264(1983)405

Eupaverin
Reversed-phase TLC of nitrogen bases using alkyl sulphonates as ion-pair reagents 264(1983)91

Evan's blue
Rapid micromethod for the determination of Evan's blue in human plasma by HPLC 273(1983)426

Evaporation
Experiments with the combination of a micro liquid chromatograph and a chemical ionization quadrupole mass spectrometer, using a capillary interface for direct liquid introduction. Some theoretical considerations concerning the evaporation of liquids from capillaries into vacuum 271(1983)71

Explosives
Trace analysis of explosives at the low picogram level using silica capillary column GC with thermal energy analyser detection 256(1983)359

HPLC of organic explosives components with electrochemical detection at a pendant mercury drop electrode 257(1983)227

Clean-up procedures for the examination of swabs for explosives traces by HPLC with electrochemical detection at a pendent mercury drop electrode 261(1983)391

HPLC-MS of explosives 268(1983)45

Extra-column effects
Minimization of extra-column effects with microbore columns using electrochemical detection 258(1983)57

Extraction apparatus
Evaluation of a Teflon block extraction procedure for determination of organic material in air particulate matter 269(1983)161

Eye lens proteins
High-performance GPC of bovine eye lens proteins in combination with low-angle laser light scattering. Superior resolution of the oligomeric β-crystallins 252(1982)255

Artificial peaks in GPC due to combining column supports with different pore sizes 261(1983)381

F

Factor VIII
Improved buffer for the chromatographic separation of Factor VIII coagulant 257(1983)387

Fast-atom bombardment
Survey of ionization methods with emphasis on LC-MS 251(1982)93

Optimization of the instrumental parameters of a combined liquid chromatograph-mass spectrometer, coupled by an interface for direct liquid introduction. III. Why the solvent should not be removed in LC-MS interfacing methods 251(1982)153

Fatty acid methyl esters
Isolation of *trans*-hexadecenoic and *trans*-octadecenoic fatty acid methyl esters from lipid extracts by means of argentation and reversed-phase TLC 256(1983)185

Fatty acids
HPLC of fatty acids: quantitative analysis of saturated, monoenoic, polyenoic and geometrical isomers 254(1983)237

Method for the selective GC determination of the free fatty acids from lipid mixtures (in German) 257(1983)101

Pentafluorobenzyl esters as derivatives for the semi-preparative HPLC of fatty acids 257(1983)174

C_{18} reversed-phase trace enrichment of short- and long-chain (C_2-C_8-C_{20}) fatty acids from dilute aqueous solutions and sea water 258(1983)93

Separation and determination of saturated fatty acids by reversed-phase HPTLC 260(1983)517

Rapid method for the determination of fatty acid profiles from fats and oils using trimethylsulphonium hydroxide for transesterification 261(1983)142

Analytical study of low-concentration gases. III. Determination of lower fatty acids and their trimethylsilyl esters in air by GC 265(1983)57

Determination of fatty acids in algae by capillary GC-MS 268(1983)71

HPLC determination of free fatty acids with 1-naphthylamine 272(1983)251

Influence of corticosteroid therapy on the fatty acid composition of serum lecithins monitored by means of TLC and GLC 273(1983)187

Direct analysis of free fatty acids in bacteria by GC 274(1983)299

Phospholipid analysis and fatty acid content in platelets by the combination of HPLC and glass capillary GLC 275(1983)400

Fatty alcohols
Reversed-phase LC separation and quantification of mixtures of fatty alcohols and esters in hydrocarbon bases 262(1983)397

Fatty esters
Reversed-phase LC separation and quantification of mixtures of fatty alcohols and esters in hydrocarbon bases 262(1983)397

Fenchone
GC-circular dichroism system for detection of optically active substances 262(1983)321

Fenpropanate
Chiral-phase HPLC separation of enantiomers of pyrethroid insecticide esters derived from α-cyano-3-phenoxybenzyl alcohol 258(1983)175

Fenquizone
GLC evaluation of fenquizone in biological samples for pharmacokinetic investigations 272(1983)95

Fentanyl
Detection of picogram concentrations of fentanyl in plasma by GLC 272(1983)392

Fenthion
Rapid method for the detection of oxygen analogues of fenthion, disulphoton and phorate on thin-layer plates 268(1983)352

Fenvalerate
Chiral-phase HPLC separation of enantiomers of pyrethroid insecticide esters derived from α-cyano-3-phenoxybenzyl alcohol 258(1983)175

Fermentation broths
GC determination of solvent residues and other materials in chemical and fermentation wastes 268(1983)31

Ferritin
Separation by HPLC of two types of subunit from horse spleen ferritin 264(1983)463

Fetoprotein
Triazine dye binding of human α-fetoprotein and albumin 265(1983)27

Fetuin
Chromatofocusing of sialoglycoproteins 259(1983)423

Field desorption
Survey of ionization methods with emphasis on LC-MS 251(1982)93

Optimization of the instrumental parameters of a combined liquid chromatograph-mass spectrometer, coupled by an interface for direct liquid introduction. III. Why the solvent should not be removed in LC-MS interfacing methods 251(1982)153

Field flow fractionation
Sedimentation field flow fractionation at high force fields 255(1983)255

Flame photometric detector
Effect of detector temperature on flame photometric detector behaviour 262(1983)77

Analysis of butyltin compounds by GC. Comparison of flame photometric and atomic absorption spectrophotometric detectors 268(1983)99

Hydrocarbon and water quenching of the flame photometric detector response 270(1983)145

Flavones
Unexpected specificity of iodine-potassium iodide spray reagent for closely related flavones 256(1983)151

Substituent effect of polymethoxylated flavones in HPLC 259(1983)150

Flavonoid glycosides
HPLC system for a wide range of naturally occurring glycosides 258(1983)135

Flavonol glycosides
Influence of organic modifiers on the isocratic reversed-phase HPLC of flavonol glycosides from brewer's hops 258(1983)103

Flavour research
Some analytical problems in flavour research (Review) 251(1982)249

Flecainide
HPLC method for the quantitation of flecainide, a new antiarrhythmic, in human plasma and urine 272(1983)341

Flexible-walled columns
Packing columns with flexible walls for HPLC 270(1983)332

Flumecinol
Capillary GC method for determination of flumecinol in plasma and saliva 273(1983)207

Flunarizine
Determination of the calcium antagonist flunarizine in biological fluids by GLC 272(1983)315

Fluorescence derivatization
Design of a post-column fluorescence derivatization system for use with microbore columns 255(1983)563

Fluorescence detector
New ways to increase the specificity of detection in LC (Review) 251(1982)1

Fluorinated bonded phases
Use of fluorinated bonded phases in reversed-phase HPLC of proteins 269(1983)96

Fluorobiphenyls
TLC and GC of some fluorobiphenyls and fluoronaphthalenes 259(1983)453

Fluorocarbons
Preparation of efficient packed columns with a polyperfluoroalkyl ether stationary phase 267(1983)388

Fluoronaphthalenes
TLC and GC of some fluorobiphenyls and fluoronaphthalenes 259(1983)453

4-Fluoro-3-nitrobenzotrifluoride
HPLC determination of putrescine, spermidine and spermine after derivatisation with 4-fluoro-3-nitrobenzotrifluoride 258(1983)289

5-Fluorouracil
Simultaneous determination of some radiosensitizing and chemotherapeutic drugs in plasma by TLC 275(1983)223

Fluphenazine
Determination of fluphenazine in plasma by HPTLC 272(1983)157

Folate monoglutamate compounds
HPLC separation of physiological folate monoglutamate compounds. Investigation of absorption and conversion of pteroylglutamic acid in the small intestine of the rat *in situ* 267(1983)175

Formate buffers
Side reaction of synthetic peptides during their purification by preparative HPLC using formate buffers 262(1983)411

Formic acid
Reversed-phase HPLC of virus proteins and other large hydrophobic proteins in formic acid containing solvents 252(1982)241

Sensitive LC method for the determination of formic acid in air samples 258(1983)207

HPLC determination of formic acid in cleavage reactions of carbohydrates 268(1983)539

Fractional sampling interface
Fractional sampling interface for combined LC-MS with ^{252}Cf fission fragment-induced ionization 271(1983)35

Fractionation
Discontinuous fractionation technique for capillary isotachophoresis 256(1983)126

Fraction collector
All-glass system for preparative glass capillary GC 262(1983)95

Freons
GC determination of ultra-trace amounts of halogen-containing hydrocarbons in the atmosphere 264(1983)129

Fructose
Determination of sucrose, glucose and fructose in plant tissue by HPLC 264(1983)474

Fucose
Separation and determination of neutral monosaccharides using methanolysis and HPLC 259(1983)334

Fungi
Rapid determination of spoilage fungi 260(1983)109

5,8-Furanoidal retinal
HPLC separation and NMR identification of stereoisomers of 5,8-furanoidal retinal 253(1982)113

Fused-silica columns
Preparation of fused-silica polar stationary phase wall-coated open tubular columns 254(1983)63

G

G acid
Quantitative HPLC analysis of the commercial dyestuff G acid and Gama acid 260(1983)97

Galactose
Complete separation and quantification of neutral sugars from plant cell walls and mucilages by HPLC 256(1983)157

Separation and determination of neutral monosaccharides using methanolysis and HPLC 259(1983)334

Galanthamine
HPLC determination of galanthamine, a long-acting anticholinesterase drug, in serum, urine and bile 275(1983)345

Gallic acid
Analysis of gallic, digallic and trigallic acids in tannic acids by HPLC 265(1983)363

Gama acid
Quantitative HPLC analysis of the commercial dyestuff G acid and Gama acid 260(1983)97

Gangliosides
HPLC resolution of *p*-nitrobenzyloxyamine derivatives of brain gangliosides 272(1983)9

Gas chromatograph
High-pressure GC. I. A precision high-pressure gas chromatograph for isobaric-isothermal measurements 270(1983)105

Gaseous mixtures
Effect of gas-phase non-ideality on the concentration of standard gaseous mixtures prepared by the saturation method 262(1983)305

Gaseous reacting mixtures
Device for GC analysis, with mass balance, of gaseous reacting mixtures in a static reactor 270(1983)318

Gasolines
Quantitative analysis of hydrocarbons by structural group type in gasolines and distillates. I. GC 256(1983)393

Quantitative analysis of hydrocarbons by structural group type in gasolines and distillates. II. LC 259(1983)393

Quantitative analysis of hydrocarbons by structural group type in gasolines and distillates. III. Combined use of LC and GC 264(1983)19

Gas-phase non-ideality
Effect of gas-phase non-ideality on the concentration of standard gaseous mixtures prepared by the saturation method 262(1983)305

Gel filtration columns
Preparation of whole-fiber cotton gel-filtration chromatography columns 268(1983)187

Gemfibrozil
Supercooled liquid crystal GC separation of the 2,4- and 2,5-xylyloxy isomers of gemfibrozil and xylenol 264(1983)287

Gibberellins
Reversed-phase C_{18} HPLC of acidic and conjugated gibberellins 256(1983)101

Ginkgolides
Analysis of terpenes from *Ginkgo biloba* L. by HPLC 267(1983)431

Ginsenosides
Off-line combination of LC and field desorption MS: principles and environmental, medical and pharmaceutical applications 251(1982)105

HPLC system for a wide range of naturally occurring glycosides 258(1983)135

Gitoxin
Separation and determination of cardiac glycosides in *Digitalis purpurea* leaves by micro HPLC 258(1983)147

Glaucarubine
Quantitative HPLC analysis of the bitter quassinoid compounds from *Simaruba glauca* seeds 264(1983)469

Glaucarubinone
Quantitative HPLC analysis of the bitter quassinoid compounds from *Simaruba glauca* seeds 264(1983)469

Glibenclamide
HPLC determination of glibenclamide in human plasma (in German) 273(1983)217

Globulins
Characteristics of protein-aqueous medium interactions measured by partition in aqueous Ficoll-Dextran biphasic system 260(1983)329

Fast chromatofocusing of human serum proteins with special reference to α_1-antitrypsin and Gc-globulin 266(1983)523

Glucagon
Analysis of iodine-labelled glucagon derivatives by HPLC 260(1983)439

HPLC preparation of single-site carrier-free pancreatic polypeptide hormone radiotracers 266(1983)239

Glucocerebrosidase
Rapid molecular weight determination for native glucocerebrosidase from human placenta using HPLC 261(1983)419

Glucofuranosides
Conversion of an analytical HPLC system into an automated semi-preparative unit and its application to the separation of a mixture of benzyl α- and β-D-glucofuranosides and glucopyranosides 257(1983)1

Glucose
Complete separation and quantification of neutral sugars from plant cell walls and mucilages by HPLC 256(1983)157

Separation and determination of neutral monosaccharides using methanolysis and HPLC 259(1983)334

Determination of sucrose, glucose and fructose in plant tissue by HPLC 264(1983)474

GC determination of glucose in serum with glucose oxidase-catalase system 275(1983)394

Glucose oligomers
Accelerated reversed-phase chromatography of carbohydrate oligomers 254(1983)143

Glucose oxidase
Poly(ethylene glycol)- and poly(vinyl alcohol)-substituted carbohydrate gels for "mild" hydrophobic chromatography 254(1983)83

α-D-Glucose-1-phosphate
LC analysis of α-D-glucose-1-phosphate. Determination of the activity of phosphorylase 268(1983)131

Glucose-6-phosphate dehydrogenase
Rapid chromatographic method for the isolation of glucose-6-phosphate dehydrogenase from yeast enzyme concentrate 266(1983)265

β-Glucosidase
TLC bioassay of iridoid and secoiridoid glucosides with a fungitoxic aglucone moiety using β-glucosidase and the fungus *Penicillium expansum* as a test organism 259(1983)522

Glucosides
TLC bioassay of iridoid and secoiridoid glucosides with a fungitoxic aglucone moiety using β-glucosidase and the fungus *Penicillium expansum* as a test organism 259(1983)522

Glutamine
Rapid HPLC method for the assay of glutamine in human cerebrospinal fluid 274(1983)325

ε-(γ-Glutamyl)lysine
Quantitation of the ε-(γ-glutamyl)lysine cross-link using a high-speed amino acid analyzer without purification of the dipeptide. Application to enzymatic digested mixtures of keratin and the membranous fraction of human stratum corneum 274(1983)63

Glyceollin
Separation of glyceollin isomers I-III by TLC 261(1983)423

Glycerol
Determination of glycerol in biological samples 273(1983)398

Glycerolipids
Strategy of glycerolipid separation and quantitation by complementary analytical techniques. Plenary lecture 273(1983)43

Glycidyl methacrylate
Investigation of the surface structure of polymers by chromatographic methods. V. Use of GPC in the study of the porous structure of copolymers of glycidyl methacrylate 259(1983)269

Glycine conjugates
Formation and separation by reversed-phase HPLC of fluorescent and UV-absorbing bile salt derivatives 260(1983)115

Glycopeptides
Fractionation of Dns-glycopeptides by reversed-phase HPLC 267(1983)238

Glycophorin
Chromatofocusing of sialoglycoproteins 259(1983)423

Glycoproteins
Detection of neutral and aminosugars from glycoproteins and polysaccharides as their alditol acetates 256(1983)419

Improved concanavalin A-Sepharose elution by specific readsorption of glycoproteins 261(1983)77

Separation of limited tryptic fragments of human ceruloplasmin by gel-permeation HPLC 266(1983)257

Purification of cyanogen bromide fragments from β-2-glycoprotein I by HPLC 266(1983)545

Gel HPLC studies on the elution behavior of chemically deglycosylated human chorionic gonadotropin and its subunits 266(1983)555

Fractionation of Dns-glycopeptides by reversed-phase HPLC 267(1983)238

Reversed-phase HPLC of human thyroid-stimulating hormone 270(1983)285

β-2-Glycoprotein I
Purification of cyanogen bromide fragments from β-2-glycoprotein I by HPLC 266(1983)545

Glycopyranosides
Conversion of an analytical HPLC system into an automated semi-preparative unit and its application to the separation of a mixture of benzyl α- and β-D-glucofuranosides and glucopyranosides 257(1983)1

Glycosides
Influence of organic modifiers on the isocratic reversed-phase HPLC of flavonol glycosides from brewer's hops 258(1983)103

HPLC system for a wide range of naturally occurring glycosides 258(1983)135

Separation and determination of cardiac glycosides in *Digitalis purpurea* leaves by micro HPLC 258(1983)147

Enzymatic post-column cleavage and electrochemical detection of glycosides separated by HPLC 265(1983)183

HPLC of some digitalis glycosides and their aglycones on chemically bonded phases 268(1983)237

Gonadotropin
Gel HPLC studies on the elution behavior of chemically deglycosylated human chorionic gonadotropin and its subunits 266(1983)555

Gradient elution
Continuous gradient elution in micro HPLC 253(1982)41

Optimization of mobile phases for multisolvent gradient elution LC 255(1983)27

Effects of chain length and carbon load on the performance of alkyl-bonded silicas for protein separations 255(1983)115

HPLC of amino acids, peptides and proteins. XL. Further studies on the role of the organic modifier in the reversed-phase HPLC of polypeptides. Implications for gradient optimisation 255(1983)125

Photometric detection at 185 nm for HPLC with either isocratic or gradient elution. Assay of mixtures of polyethylene glycol oligomers 255(1983)463

Gradient optimization principles in reversed-phase HPLC and the separation of influenza virus components 266(1983)55

Gradient elution in supercritical fluid chromatography 267(1983)267

Grandiflorenic acid
Determination of grandiflorenic acid in organic and aqueous extracts of *Montanoa tomentosa* (zoapatle) by reversed-phase HPLC 258(1983)297

Graphitized carbon black
Liquid modifiers in reversed-phase LC with graphitized carbon black adsorbents 269(1983)47

Growth factors
Use of size-exclusion and ion-exchange HPLC for the isolation of biologically active growth factors 266(1983)301

Growth hormone
HPLC of amino acids, peptides and proteins. XLVIII. Retention behaviour of tryptic peptides of human growth hormone isolated by reversed-phase HPLC: a comparative study using different chromatographic conditions and predicted elution behaviour based on retention coefficients 266(1983)89

Guaiacols
GC separation of acetylated chlorinated phenols, guaiacols and catechols on an SE-30 quartz capillary column 257(1983)127

Guanidine hydrochloride
Continuous-flow analysis of proteoglycans during gel filtration using guanidine hydrochloride as an eluent 256(1983)341

Guanidino compounds
HPLC of guanidino compounds using benzoin as a pre-column fluorescent derivatization reagent 268(1983)417

Guanosine
Isotachophoretic analyses of anions at high pH 260(1983)471

Guanosine 2':3'-cyclic monophosphate
High-performance displacement chromatography of nucleic acid fragments in a tandem enzyme reactor-liquid chromatograph system 266(1983)319

Guluronic acid
Determination of the uronic acid composition of alginates by HPLC 264(1983)137

H

Haemins
GPC of porphyrins and hemins 258(1983)310

Haemoglobin
Poly(ethylene glycol)- and poly(vinyl alcohol)-substituted carbohydrate gels for "mild" hydrophobic chromatography 254(1983)83

Identification and quantitation of Hb Olympia [β20(B2)Val → Met] and Hb San Diego [β109(G11)Val → Met] by HPLC 259(1983)511

Cation-exchange HPLC of proteins on poly(aspartic acid)-silica 266(1983)23

HPLC of human hemoglobins on a new cation exchanger 266(1983)197

Cation-exchange, HPLC determination of hemoglobin A_{1c} 266(1983)207

Identification of the α chain abnormal hemoglobin Jackson (α127 Lys→Asn) after isolation of the core peptide by HPLC 269(1983)119

Investigation of the heterogeneity of hemoglobin by cation-exchange chromatography on Bio-Rex 70 272(1983)51

An automatic method for determination of glycosylated hemoglobins using low-pressure LC 275(1983)41

Haemoproteins
Raman spectroscopic detection of haemoproteins in the eluate from HPLC 254(1983)285

Hafnium compounds
HPLC of bis(η^5-1,2,3,4,5-pentamethylcyclopentadienyl)-titanium, zirconium and hafnium dichlorides 269(1983)11

Hall detector
Chlorine-selective monitoring for HPLC with a Hall electrolytic conductivity detector 261(1983)213

Halocarbons
Evaluation of a Tenax GC sampling procedure for collection and analysis of vehicle-related aromatic and halogenated hydrocarbons in ambient air 252(1982)147

GC separation of chlorinated C_1-C_3 hydrocarbons 254(1983)163

GC determination of ultra-trace amounts of halogen-containing hydrocarbons in the atmosphere 264(1983)129

Halogenobutyrates
Glass capillary GC of homologous series of esters. III. Separation of alkyl halogenopropionates and halogenobutyrates on OV-101 262(1983)316

Halogenoethyl esters
Glass capillary GC of homologous series of esters. II. Separation of homologous series of halogenoethyl esters of aliphatic monocarboxylic acids on OV-101 252(1982)293

Halogenopropionates
Glass capillary GC of homologous series of esters. III. Separation of alkyl halogenopropionates and halogenobutyrates on OV-101 262(1983)316

H-Coal liquid
Compositional analysis of an H-Coal liquid by GC-MS-computer technique 267(1983)303

Heat capacity
Transitions in chemically bonded organic phases on silica. Specific heat measurements by adiabatic calorimetry 268(1983)147

Heparins
Characterization of heparins by high-performance size exclusion LC 261(1983)287

Amino acid content of heparins 264(1983)291

Heptaminol
Determination of heptaminol in human plasma and urine by HPLC 274(1983)179

4-Heptanone
GC-MS determination of total 4-heptanone, a new marker in diabetes mellitus 273(1983)67

Heroin
Advances in fused-silica column technology for the analysis of underivatized drugs 257(1983)211

Use of HPLC to quantitate the opiate and sugar content of illicit heroin preparations 265(1983)293

GC study of the urinary codeine-to-morphine ratios in controlled codeine consumption and in mass screening for opiate drugs 267(1983)117

Hetera[n](1,1')ferrocenophanes
TLC of hetera[n](1,1')ferroceno- and ruthenocenophanes 268(1983)144

Hetera[n](1,1')ruthenocenophanes
TLC of hetera[n](1,1')ferroceno- and ruthenocenophanes 268(1983)144

Hexadecane
Improved solvent system for plant pigment separation on silica gel thin layers 262(1983)331

Hexadecenoic acid
Isolation of *trans*-hexadecenoic and *trans*-octadecenoic fatty acid methyl esters from lipid extracts by means of argentation and reversed-phase TLC 256(1983)185

Hexazinone
HPLC determination of hexazinone residues in soil and water 270(1983)396

Hexylcaine hydrochloride
Simultaneous determination of hexylcaine hydrochloride and parabens in solution by HPLC 257(1983)400

High-boiling compounds
Simple device for solvent-free injection of high-boiling compounds in capillary GC 267(1983)19

High-performance electrophoresis
High-performance electrophoresis: the electrophoretic counterpart of HPLC 270(1983)1

High-performance ion-exchange chromatography
Retention model for high-performance ion-exchange chromatography 266(1983)3

High-pressure gas chromatograph
High-pressure GC. I. A precision high-pressure gas chromatograph for isobaric-isothermal measurements 270(1983)105

High-speed liquid chromatography
LC system for fast, accurate analysis 253(1982)159

Hindered amine light stabilizers
Chromatographic determination of some hindered amine light stabilizers in polyolefins 260(1983)507

Hippuryl-lysine
Rapid assay of human plasma carboxypeptidase N by HPLC separation of hippuryl-lysine and its product 266(1983)173

Histamine
Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

Characteristics of immobilized histamine for pyrogen adsorption 262(1983)193

Determination of histamine, methylhistamines and histamine-*o*-phthaldialdehyde complexes by two HPLC procedures. Application to biological samples 273(1983)275

Histidine-bonded silica gel
Enantiomeric resolution of amino acids by high-performance ligand-exchange chromatography using histidine-bonded silica gel 260(1983)75

Histidine dipeptides
Improved HPLC method for analysis of histidine dipeptides anserine, carnosine and balenine present in fresh meat 261(1983)153

Histones
HPLC of chromatin histones 266(1983)609

Hollow fibre suppressor
Micro column ion chromatography with a hollow fibre suppressor 260(1983)81

Homovanillic acid
Simultaneous multiple electrode LC-electrochemical assay for catecholamines, indoleamines and metabolites in brain tissue 255(1983)533

Direct determination of 4-hydroxy-3-methoxyphenylacetic (homovanillic) acid in urine by HPLC with amperometric detection 273(1983)253

Hopane
Enrichment of polycyclic terpenoid, saturated hydrocarbons from petroleum by adsorption on zeolite NaX 270(1983)219

Hops
Influence of organic modifiers on the isocratic reversed-phase HPLC of flavonol glycosides from brewer's hops 258(1983)103

Hormones
see also Plant hormones and steroids

Purification of synthetic analogues of yeast mating hormone by reversed-phase chromatography 256(1983)117

Purification of porcine proinsulin by HPLC 256(1983)283

Comparison of carboxymethyl-cellulose cation-exchange chromatography and HPLC in the purification of guinea-pig insulin from pancreatic extracts 256(1983)293

HPLC separation of catechol estrogens: use as a screening procedure for evaluation of *in vitro* metabolism of [^{3}H]estradiol 256(1983)335

Simultaneous measurement of four testicular Δ^4-3-ketosteroids by isocratic HPLC with on-line UV absorbance detection 257(1983)81

Separation of the monoiodinated isomers of insulin by HPLC 257(1983)162

Analysis of iodine-labelled glucagon derivatives by HPLC 260(1983)439

Separation, isolation and characterization of the four monoiodinated insulin tracers using reversed-phase HPLC 265(1983)301

Simple, efficient ternary solvent system for the separation of luteinizing hormone-releasing hormone and enkephalins by reversed-phase HPLC 266(1983)67

HPLC of amino acids, peptides and proteins. XLVIII. Retention behaviour of tryptic peptides of human growth hormone isolated by reversed-phase HPLC: a comparative study using different chromatographic conditions and predicted elution behaviour based on retention coefficients 266(1983)89

HPLC preparation of single-site carrier-free pancreatic polypeptide hormone radiotracers 266(1983)239

HPLC of amino acids, peptides and proteins. XLVII. Analytical and semi-preparative separation of several pituitary proteins by high-performance ion-exchange chromatography 266(1983)273

Gel HPLC studies on the elution behavior of chemically deglycosylated human chorionic gonadotropin and its subunits 266(1983)555

Optimization of a melanotropin-receptor binding assay by reversed-phase HPLC 266(1983)567

Reversed-phase HPLC of insulins from different species 268(1983)112

Reversed-phase HPLC of human thyroid-stimulating hormone 270(1983)285

Separation of oestrogens in biological fluids and synthetic mixtures on Sephadex G-type gels (Review) 271(1983)325

Rapid simultaneous assay of serum estrone, estradiol, and estriol in pregnant women using methyl ether acetate derivatives by capillary GC and electron-impact MS 272(1983)233

Hostavin TMN 20
Chromatographic determination of some hindered amine light stabilizers in polyolefins 260(1983)507

Human chorionic gonadotropin
Gel HPLC studies on the elution behavior of chemically deglycosylated human chorionic gonadotropin and its subunits 266(1983)555

Humic substances
High-performance size exclusion chromatography of aquatic humic substances 259(1983)499

Hummel and Dreyer procedure
HPLC application of the Hummel and Dreyer method for the determination of colchicine-tubulin binding parameters 266(1983)141

Hyaluronate oligosaccharides
HPLC analysis of even- and odd-numbered hyaluronate oligosaccharides 265(1983)19

Hydration
Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. II. Effect of ionic composition on the hydration properties of the phases 253(1982)149

Hydrobromic acid
Simultaneous determination of small amounts of hydrochloric and hydrobromic acids by derivatization with ethylene oxide and GC 264(1983)405

Hydrocarbon bases
Reversed-phase LC separation and quantification of mixtures of fatty alcohols and esters in hydrocarbon bases 262(1983)397

Hydrocarbons
Characterizing petroleum- and shale-derived jet fuel distillates via temperature-programmed Kováts indices 253(1982)179

Quantitative analysis of hydrocarbons by structural group type in gasolines and distillates. I. GC 256(1983)393

Quantitative analysis of hydrocarbons by structural group type in gasolines and distillates. II. LC 259(1983)393

Solution and adsorption thermodynamics in propylene glycol by GC. A comparative study with other polyhydroxylated solvents 259(1983)413

Rapid GC analysis of residual hydrocarbons in fodder yeast 259(1983)508

Quantitative analysis of hydrocarbons by structural group type in gasolines and distillates. III. Combined use of LC and GC 264(1983)19

Hydrocarbon and water quenching of the flame photometric detector response 270(1983)145

Hydrocarbon waxes
Characterization of hydrocarbon waxes by GLC with a high-resolution glass capillary column 260(1983)391

Hydrochloric acid
Simultaneous determination of small amounts of hydrochloric and hydrobromic acids by derivatization with ethylene oxide and GC 264(1983)405

Hydrodynamic chromatography
Separation by flow (hydrodynamic chromatography) of macromolecules performed in open microcapillary tubes 260(1983)297

Hydrogen-atmosphere flame ionization detector
Phosphorus response in a hydrogen-atmosphere flame ionization detector for GC 264(1983)149

Hydrogen bonding
Mobile phase effects in LSC. Importance of adsorption-site geometry, adsorbate delocalization and hydrogen bonding 255(1983)3

Hydroperoxides
Direct HPLC separation of hydroperoxide isomers of linoleic acid 258(1983)280

Hydrophobicity
see also Lypophilicity

Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. I. Effect of ionic composition on the relative hydrophobicity of the phases 253(1982)139

Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. II. Effect of ionic composition on the hydration properties of the phases 253(1982)149

Relationship between R_M values and hydrophobicity. Chromatographic behaviour of crotonolactones 254(1983)277

Hydrophobicity index
Applicability of GLC in determining liquid-liquid partition data 252(1982)77

Hydrotropic agents
TLC investigation of the interaction between dispersed dyes and hydrotropic agents 270(1983)348

Hydroxamic acids
HPLC analysis of naphtho- and anthranilohydroxamic acids 260(1983)493

Use of high-molecular-weight "neo" hydroxamic acids as the stationary phase in column extraction chromatography 270(1983)324

Hydroxy acids
Direct resolution of enantiomers of 2- and 3-hydroxy acid alkyl esters by fused-silica capillary GC 260(1983)63

GLC-frequency pulse-modulated electron-capture detection in the diagnosis of infectious diseases 274(1983)1

7α-Hydroxy bile acids
Simple enzymatic detection method for urinary sulfated 7α-hydroxy bile acids in normal subjects and in patients with acute hepatitis 273(1983)87

Hydroxy carboxylic acids
GLC determination of hydroxy carboxylic acids on a fused-silica capillary column 261(1983)320

GC resolution of 2-hydroxycarboxylic acid enantiomers 270(1983)159

Hydroxycinnamic acid esters
Analytical and preparative HPLC of hydroxycinnamic acid esters 260(1983)447

Hydroxycinnamoylglucoses
Analytical and preparative HPLC of hydroxycinnamic acid esters 260(1983)447

Hydroxycinnamoylquinic acids
Analytical and preparative HPLC of hydroxycinnamic acid esters 260(1983)447

1-Hydroxyethylbenzene
Investigation of the possible oxidation by ozone of organic substrates adsorbed on Tenax 269(1983)179

Hydroxyethylcellulose
Effect of electroosmosis on detection in isotachophoresis 260(1983)241

2-(1-Hydroxy-ethyl)-7-(2-hydroxy-3-isopropyl-aminopropoxy)-benzofuran
GC determination of the glucuronide of 2-(1-hydroxy-ethyl)-7-(2-hydroxy-3-isopropyl-aminopropoxy)-benzofuran, a metabolite of befunolol, in human urine 272(1983)187

Hydroxyethyl methacrylate
Ion-exchange derivatives of Spheron. IV. Phosphate derivatives 261(1983)363

O-(β-Hydroxyethyl)-rutoside
Quantitative determination of O-(β-hydroxyethyl)-rutosides in serum by HPLC 272(1983)333

Hydroxyethyl-starch
GLC analysis of hydroxyethyl-starch 254(1983)187

GC determination of acetone in hydroxyethyl starches 269(1983)28

5-Hydroxyindole-3-acetic acid
TLC separation and quantitation of radioactively labelled 5-hydroxytryptamine, 5-hydroxytryptamine-O-sulfate, and 5-hydroxyindoleacetic acid 252(1982)338

Simultaneous multiple electrode LC-electrochemical assay for catecholamines, indoleamines and metabolites in brain tissue 255(1983)533

Simultaneous analysis of indole-3-acetic acid and detection of 4-chloroindole-3-acetic acid and 5-hydroxyindole-3-acetic acid in plant tissues by HPLC of their 2-methylindolo-α-pyrone derivatives 258(1983)155

Chromatographic and spectrometric studies on conversion products of 5-hydroxyindole-3-acetic acid 270(1983)359

Simultaneous determination of 5-hydroxytryptamine, its amino acid precursors and acid metabolite in discrete brain regions by HPLC with fluorescence detection 275(1983)1

Simultaneous determination of the three major monoamine metabolites in cerebrospinal fluid by HPLC with electrochemical detection 275(1983)11

HPTLC of indole derivatives on layers of Sil C_{18}-50 untreated or impregnated with N-dodecylpyridinium chloride and on ammonium tungstophosphate 260(1983)383

13-Hydroxylupanine
Capillary GC of lupin alkaloids 261(1983)95

4-Hydroxy-3-methoxyphenylacetic acid
Direct determination of 4-hydroxy-3-methoxyphenylacetic (homovanillic) acid in urine by HPLC with amperometric detection 273(1983)253

Simultaneous determination of the three major monoamine metabolites in cerebrospinal fluid by HPLC with electrochemical detection 275(1983)11

1-Hydroxymethyltriazolam
Simultaneous assay of triazolam and its main hydroxy metabolite in plasma and urine by capillary GC 274(1983)161

***α*-Hydroxymetoprolol**
Rapid determination of metoprolol and α-hydroxymetoprolol in human plasma and urine by HPLC 272(1983)205

Hydroxynaphthalenes
GC behaviour of hydroxynaphthalenes and derivatives on liquid crystal stationary phases 262(1983)175

***p*-Hydroxypenicillin V**
Determination of *p*-hydroxypenicillin V, *p*-hydroxyphenoxyacetic acid, phenoxyacetic acid, and penicillin V in production fermentation broth 268(1983)120

3'-Hydroxypentobarbital
Quantitation of 3'-hydroxypentobarbital in serum using HPLC 275(1983)107

***p*-Hydroxyphenoxyacetic acid**
Determination of *p*-hydroxypenicillin V, *p*-hydroxyphenoxyacetic acid, phenoxyacetic acid, and penicillin V in production fermentation broth 268(1983)120

(Hydroxyphenyl)-3-butanone
GC determination of raspberry ketone and malathion in insect bait concentrates 259(1983)176

1-[2-(3-Hydroxyphenyl)-1-phenylethyl]-4-(3-methyl-2-butenyl)piperazine
Enantiomeric resolution of 1-[2-(3-hydroxyphenyl)-1-phenylethyl]-4-(3-methyl-2-butenyl)piperazine by reversed-phase HPLC using a chiral mobile phase 258(1983)276

Hydroxyphenytoin
HPLC determination of phenytoin and hydroxyphenytoin in human urine 275(1983)97

Routine determination of hydroxyphenytoin in urine by HPLC using an automatic column-switching technique 275(1983)335

20α-Hydroxy-9β,10α-pregna-4,6-dien-3-one
Determination of 20α-hydroxy-9β,10α-pregna-4,6-dien-3-one in plasma by selected ion monitoring 272(1983)243

17α-Hydroxyprogesterone
Simultaneous measurement of four testicular Δ^4-3-ketosteroids by isocratic HPLC with on-line UV absorbance detection 257(1983)81

L-Hydroxyproline
Effect of the skeletal structure of sorbents containing L-hydroxyproline groups on enantioselectivity in ligand-exchange chromatography of amino acid racemates 264(1983)377

3-(L-Hydroxyprolyl)propylsilica
High-performance ligand-exchange chromatography of α-amino acid enantiomers. Studies on monomerically bonded 3-(L-prolyl)- and 3-(L-hydroxyprolyl)propyl silicas 255(1983)51

Hydroxypropylmethylcellulose
Effect of electroosmosis on detection in isotachophoresis 260(1983)241

3-Hydroxy-4(1*H*)-pyridone
Analysis of mimosine and 3-hydroxy-4(1*H*)-pyridone in plasma by HPLC 265(1983)143

3α-Hydroxysteroid dehydrogenase
Immbolized 3α-hydroxysteroid dehydrogenase and dansyl hydrazine as a pre-labeling reagent for HPLC with fluorescence detection of bile acids 272(1983)261

Hydroxysteroid dehydrogenases
Micro HPLC separations of bile acids 258(1983)125

Affinity chromatography of bile salt 7α-, 7β- and 12α-hydroxysteroid dehydrogenases on immobilized Procion Red and Cibacron Blue Sepharose 4B columns 259(1983)154

5-Hydroxytryptamine
see Serotonin

5-Hydroxytryptamine-0-sulphate
TLC separation and quantitation of radioactively labelled 5-hydroxytryptamine, 5-hydroxytryptamine-O-sulfate, and 5-hydroxyindoleacetic acid 252(1982)338

5-Hydroxytryptophan
Simultaneous multiple electrode LC-electrochemical assay for catecholamines, indoleamines and metabolites in brain tissue 255(1983)533

Simultaneous determination of 5-hydroxytryptamine, its amino acid precursors and acid metabolite in discrete brain regions by HPLC with fluorescence detection 275(1983)1

Hypochlorite
Chemical changes of organic compounds in chlorinated water. VI. GC and MS studies of the reactions of phenylphenols with hypochlorite in dilute aqueous solution 265(1983)201

Hypoxanthine
Enzymatic determination of phosphate in conjunction with HPLC 262(1983)265

Simultaneous determination of plasma and urinary uric acid, xanthine, hypoxanthine, allopurinol, oxipurinol, orotic acid, orotidine and creatinine by HPLC 274(1983)75

I

Ibuprofen
Micro-bore HPLC for the analysis of pharmaceutical compounds 253(1982)227

Ifosfamide
Electron-capture-GC analysis of ifosfamide in human plasma and urine 275(1983)432

Imidazolines
Homologous distribution analysis of imidazoline type cationic surfactants by HPLC 262(1983)408

Analysis of amphoteric surfactants by LC with post-column detection. II. Imidazoline-type amphoteric surfactants derived from sodium chloroacetate 267(1983)133

Analysis of amphoteric surfactants by LC with post-column detection. III. Salt-free imidazoline amphoteric surfactants 267(1983)149

Immunoglobulin D
Two-dimensional HPLC and chemical modification in the strategy of sequence

analysis. Complete amino acid sequence of the lambda light chain of human immunoglobulin D 266(1983)511

Immunoglobulin G myeloma
High-performance ion-exchange chromatography of plasma proteins 266(1983)39

Immunoglobulins
Determination of immunoglobulins in blood serum by high-performance affinity chromatography 266(1983)157

Impurity profiles
Comparative GC analysis of narcotics. IV. Methamphetamine hydrochloride 258(1983)65

Indeloxazine
Determination of indeloxazine, a new antidepressant agent, in human plasma by GLC with electron-capture detection 272(1983)176

Indole-3-acetic acid
Simultaneous analysis of indole-3-acetic acid and detection of 4-chloroindole-3-acetic acid and 5-hydroxyindole-3-acetic acid in plant tissues by HPLC of their 2-methylindolo-α-pyrone derivatives 258(1983)155

Rapid breakdown of indole-3-acetic acid on silica gel thin-layer plates 267(1983)242

Indole alkaloids
Inclusion chromatography of enantiomers of indole alkaloids on a cyclodextrin polymer stationary phase 270(1983)127

Screening of hallucinogenic mushrooms with HPLC and multiple detection 270(1983)293

Determination of vincamine by HPLC with dual-wavelength UV detection 270(1983)387

Indolealkylamines
Separation of the indolealkylamines and their analogous tetrahydro-β-carbolines by LC 275(1983)21

Indoleamines
Simultaneous multiple electrode LC-electrochemical assay for catecholamines, indoleamines and metabolites in brain tissue 255(1983)533

Indoles
HPTLC of indole derivatives on layers of Sil C_{18}-50 untreated or impregnated with N-dodecylpyridinium chloride and on ammonium tungstophosphate 260(1983)383

Indomethacin
Sample preparation by salts precipitation and quantitation by HPLC with UV detection of selected drugs in biological fluids 257(1983)345

Inert spheres
Effect on column efficiency of packing capillary columns with inert spheres for use in LC 264(1983)258

Infectious diseases
GLC-frequency pulse-modulated electron-capture detection in the diagnosis of infectious diseases 274(1983)1

Influenza virus proteins
Gradient optimization principles in reversed-phase HPLC and the separation of influenza virus components 266(1983)55

Injection techniques
New split injection technique in capillary column GC 256(1983)201

Automatic device for injection and multiple column switching in HPLC 260(1983)33

Injector and splitter system for silica wall-coated open tubular column GC 260(1983)164

Injectors
Simple device for solvent-free injection of high-boiling compounds in capillary GC 267(1983)19

Inorganic anions
Micro column ion chromatography with a hollow fibre suppressor 260(1983)81

GC determination of inorganic anions as pentafluorobenzyl derivatives 269(1983)183

Inorganic ions
HPLC of inorganic and organic ions using low-capacity ion-exchange columns with indirect refractive index detection 252(1982)177

UV visualization of inorganic ions by reversed-phase ion-interaction chromatography 260(1983)89

Insulin
Comparison of carboxymethyl-cellulose cation-exchange chromatography and HPLC in the purification of guinea-pig insulin from pancreatic extracts 256(1983)293

Separation of the monoiodinated isomers of insulin by HPLC 257(1983)162

Separation, isolation and characterization of the four monoiodinated insulin tracers using reversed-phase HPLC 265(1983)301

HPLC preparation of single-site carrier-free pancreatic polypeptide hormone radiotracers 266(1983)239

Reversed-phase HPLC of insulins from different species 268(1983)112

Interfaces, GC-MS
Simple and effective direct coupling for GC-MS on the MS 50 mass spectrometer. Full spectra up to n-$C_{54}H_{110}$ 259(1983)445

Construction of a GC-MS interface using a fused-silica transfer line 268(1983)177

Interfaces, LC-ECD
Improved interface for LC-electron-capture detector coupling. I 252(1982)101

Interfaces, LC-MS
LC-MS in the pharmaceutical industry: objectives and needs 251(1982)141

Optimization of the instrumental parameters of a combined liquid chromatograph-mass spectrometer, coupled by an interface for direct liquid introduction. III. Why the solvent should not be removed in LC-MS interfacing methods 251(1982)153

HPLC-MS with transport interfaces 251(1982)165

LC-MS of polar lipids. Comparison of on-line method using direct liquid introduction interface with off-line method using desorption/chemical ionization 251(1982)189

Application of a combined LC-MS instrument using an interface for direct liquid introduction 251(1982)203

Direct liquid introduction micro-LC-MS coupling. Optimization of droplet desolvation and instrumental parameters for high sensitivity 264(1983)357

How to interface a chromatographic column to a mass spectrometer 271(1983)13

Fractional sampling interface for combined LC-MS with ^{252}Cf fission fragment-induced ionization 271(1983)35

Optimization of the instrumental parameters of a combined liquid chromatography-mass spectrometer, coupled by an interface for direct liquid introduction. IV. A new desolvation chamber for droplet focusing or Townsend discharge ionization 271(1983)43

Quantitative trace analysis by reversed-phase LC-MS 271(1983)61

Experiments with the combination of a micro liquid chromatograph and a chemical ionization quadrupole mass spectrometer, using a capillary interface for direct liquid introduction. Some theoretical considerations concerning the evaporation of liquids from capillaries into vacuum 271(1983)71

Interfacial potential difference
Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. II. Effect of ionic composition on the hydration properties of the phases 253(1982)149

Interferon
Mouse interferon: rapid purification by adsorption on controlled pore glass and HPLC 259(1983)169

Rapid purification of leukocyte interferons by HPLC 266(1983)249

Iodic acid
Colour reactions of iodic acid as reagent for identifying drugs by TLC 268(1983)528

Iodide
GC determination of inorganic anions as pentafluorobenzyl derivatives 269(1983)183

Iodine-potassium iodide
Unexpected specificity of iodine-potassium iodide spray reagent for closely related flavones 256(1983)151

Iohexol
HPLC determination of iohexol in plasma, urine and feces 274(1983)428

Ion-exchange resins
Selective adsorption of non-ionic surfactants using an anion-exchange resin in the cobaltithiocyanate form 260(1983)483

Dependence of the calcium distribution coefficient on a strongly acidic cation-exchange resin on the anion of strong acids and their lithium salts 262(1983)211

Ion exchangers
Evaluation of conventional and medium-performance anion exchangers for the separation of proteins 253(1982)219

High-performance anion-exchange chromatography of oligonucleotides 255(1983)137

Operational variables in medium-performance ion-exchange chromatography of proteins on DEAE-Toyopearl 650 256(1983)143

Ion-exchange derivatives of Spheron. IV. Phosphate derivatives 261(1983)363

Multiple column and detector approach to anion screening by isocratic HPLC 262(1983)61

Cation-exchange HPLC of proteins on poly(aspartic acid)-silica 266(1983)23

High-performance ion-exchange chromatography of plasma proteins 266(1983)39

HPLC of human hemoglobins on a new cation exchanger 266(1983)197

New ion exchanger for the separation of proteins and nucleic acids 266(1983)385

Characterization of TSK-GEL CM-Toyopearl 650 ion exchanger 268(1983)425

Characterization of silica bonded stationary phases 269(1983)127

Chemically synthesized hydrophobic anion-exchange HPLC supports used for oligonucleotide resolution by mixed mode chromatography 270(1983)117

Ionization
Survey of ionization methods with emphasis on LC-MS 251(1982)93

Ionization of middle mass molecules: ejection of ions from solution 271(1983)3

Fractional sampling interface for combined LC-MS with ^{252}Cf fission fragment-induced ionization 271(1983)35

Optimization of the instrumental parameters of a combined liquid chromatography-mass spectrometer, coupled by an interface for direct liquid introduction. IV. A new desolvation chamber for droplet focusing or Townsend discharge ionization 271(1983)43

Ion-pair chromatography
Studies in ion-pair chromatography. II. Retention of positive and negative ions and neutral solutes in tetrabutylammonium bromide-containing methanol-water eluents on LiChrosorb RP-18 265(1983)171

Ion-pair extraction
New approaches to on-line ion-pair extraction and derivatization for HPLC-MS 251(1982)175

Iprodione
Reversed-phase HPLC of pesticides. VII. Analysis of Vinclozolin, Iprodione, Procymidone, Dichlozolinate and their degradation product 3,5-dichloroaniline on white must and wine extracts 256(1983)176

Iridoid glucosides
TLC bioassay of iridoid and secoiridoid glucosides with a fungitoxic aglucone moiety using β-glucosidase and the fungus *Penicillium expansum* as a test organism 259(1983)522

Iron
Effect of ligand doping on the GC of the trifluoroacetylacetonates of chromium(III), aluminium(III) and iron(III) 256(1983)455

Iron chelates
GC of iron(III) chelates of hexadentate Schiff bases 270(1983)354

Iron pentacarbonyl
HPLC of alkyl phosphite-substituted derivatives of iron pentacarbonyl 265(1983)347

IR spectrophotometer
New ways to increase the specificity of detection in LC (Review) 251(1982)1

IR spectroscopy
Coupling of a high-performance liquid chromatograph with a Fourier transform IR detector 259(1983)211

Transmission near-IR technique for evaluation and relative quantitation of surface groups on silica 260(1983)1

Iso-α-acids
Separation of α, β- and iso-α-acids in hop products and beer by HPLC 262(1983)448

Isoamylamine
GC analysis of bacterial amines as their free bases 274(1983)37

Isobutylamine
GC analysis of bacterial amines as their free bases 274(1983)37

Isocitrate dehydrogenase ($NADP^+$)
Effect of sodium hydroxide on the binding of NADP-isocitrate dehydrogenase to Matrex Gel Red-A 261(1983)134

Isocyanates
Simultaneous determination of amines and isocyanates in working atmospheres by GLC 261(1983)253

Trace analysis of amines and isocyanates using glass capillary GC and selective detection. II. Determination of aromatic amines as perfluorofatty acid amides using nitrogen-selective detection 270(1983)207

Isoelectric focusing
Comparison of chromatofocusing and isoelectric focusing in recovery of specific activity from biological fluids 262(1983)334

Separation of deamidated forms of triosephosphate isomerase by chromatofocusing. A comparison of chromatofocusing with column isoelectric focusing 265(1983)126

Isoelectric point
Determination of pI values of variously methylated amino acids by isoelectric focusing 256(1983)331

Isoflavones
Isolation of jamaicin and lisetin and their determination in *Piscidia erythrina* L. by HPLC 260(1983)497

High-performance liquid chromatography of isoflavones and phytoalexins from *Cicer arietinum* 270(1983)392

Isoflavonoids
HPLC of isofalvonoid phytoalexins in French Bean (*Phaseolus vulgaris*) 267(1983)439

α-Isolupanine
Capillary GC of lupin alkaloids 261(1983)95

Isopilocarpine
Reversed-phase HPLC separation for pilocarpine and isopilocarpine using radial compression columns 264(1983)264

Isopropanol
Use of various organic modifiers in TLC on chemically bonded phases 265(1983)105

Isoquinoline
Separation of azaarenes by polyamide TLC and the relationship between their basicity and R_F values 254(1983)35

Isosorbide dinitrate
Determination of isosorbide dinitrate and its mononitrate metabolites in human plasma by HPLC-thermal energy analysis 272(1983)129

Isosorbide nitrates
Determination of isosorbide nitrates by HPLC and their stability in aqueous solution 264(1983)159

Isotachophoresis
Effect of electroosmosis on detection in isotachophoresis 260(1983)241

Isotachophoretic indices
Table of isotachophoretic indices. I. Simulated qualitative and quantitative indices of 287 anionic substances in the range pH 3-10 271(1983)D1

Isotope cluster chromatography
Isotope cluster chromatography to locate isotopically labeled species 275(1983)154

Isotope dilution
Multiple inverse isotope dilution assay for oxprenolol and nine metabolites in biological fluids 259(1983)301

Multiple inverse isotope dilution assay for the stereospecific determination of *R*(+)- and *S*(-)-oxprenolol in biological fluids 259(1983)311

Isotope enrichment
Calcium isotope enrichment by means of counter-current electromigration using an ion-exchange resin as migration medium 252(1982)121

Factors affecting single-stage separation coefficients and profile of the chromatogram in uranium isotope enrichment by cation-exchange chromatography using uranyl-carboxylate complexes 256(1983)231

J

Jamaicin
Isolation of jamaicin and lisetin and their determination in *Piscidia erythrina* L. by HPLC 260(1983)497

Jet fuel distillates
Characterizing petroleum- and shale-derived jet fuel distillates via temperature-programmed Kováts indices 253(1982)179

K

Kaempferol
Influence of organic modifiers on the isocratic reversed-phase HPLC of flavonol glycosides from brewer's hops 258(1983)103

Kallikrein
Rapid separation and measurement of rat urinary kallikrein by HPLC with a continuous flow enzyme detector 264(1983)249

Keratin
Specific radiolabelling of keratin proteins by amidination 268(1983)306

Quantitation of the ε-(γ-glutamyl)lysine cross-link using a high-speed amino acid analyzer without purification of the dipeptide. Application to enzymatic digested mixtures of keratin and the membranous fraction of human stratum corneum 274(1983)63

Ketanserin
HPLC assay with fluorometric detection of ketanserin, a new antihypertensive agent and serotonin S_2 antagonist in human plasma, blood and urine 272(1983)411

Determination of ketanserin in human plasma by HPLC 272(1983)417

Determination of ketanserin in plasma by reversed-phase high-performance liquid chromatography 275(1983)232

Keto acids
Anion chromatography of carboxylic acids and keto acids using a hollow-fibre suppressor 253(1982)87

HPLC determination of α-keto acids in plasma with fluorometric detection 273(1983)245

Ketones
Separation of chiral ketones by enantioselective GC 253(1982)267

GC-circular dichroism system for detection of optically active substances 262(1983)321

Influence of eluent composition on lipophilicity measurements using reversed-phase TLC 270(1983)87

Analysis of organics in the environment by functional group using a triple quadrupole mass spectrometer 271(1983)93

Ketosteroids
Simultaneous measurement of four testicular Δ^4-3-ketosteroids by isocratic HPLC with on-line UV absorbance detection 257(1983)81

Kinases
Application of affinity partitioning in an aqueous two-phase system to the investigation

of triazine dye-enzyme interactions 259(1983)97

Klebsiella
Head-space GLC for the rapid laboratory diagnosis of urinary tract infections caused by enterobacteria 274(1983)27

Krebs cycle acids
Simultaneous quantitation of Krebs cycle and related acids by mass fragmentography 268(1983)447

L

β-Lactam antibiotics
HPLC determination of β-lactam antibiotics, using fluorescence detection following post-column derivatization 257(1983)91

β-Lactamases
Chromatofocusing for separation of β-lactamases. I. Microscale separation of RTEM- and chromosomally mediated β-lactamases of *Escherichia coli* J6-2 262(1983)373

Use of chromatofocusing for separation of β-lactamases. II. β-Lactamase of a characterized *Pseudomonas aeruginosa* strain 262(1983)379

Use of chromatofocusing for separation of β-lactamases. III. β-Lactamases of the *Bacillus cereus* 569/H strain 264(1983)170

β-Lactam esters
TLC method for screening the hydrolysis of β-lactam esters. *In vitro* hydrolysis of benzylpenicillin-benzamidomethyl ester by non-specific serum esterases 264(1983)174

Lactarius necator
Isolation of a mutagenic fraction from aqueous extracts of the wild edible mushroom *Lactarius necator* (a preliminary note) 255(1983)529

Lactate dehydrogenase
Preparative high-performance liquid affinity chromatography 266(1983)151

Lacto-N-neotetraose
Preparation of lacto-N-neotetraose from human milk by HPLC 262(1983)426

Lactones
Application of HPLC for analysis and isolation of sesquiterpene lactones 265(1983)97

Lactose
Study of the HPLC separation of reducing sugars, applied to the determination of lactose in milk 259(1983)79

Laser desorption
Survey of ionization methods with emphasis on LC-MS 251(1982)93

Laser desorption mass spectrometry
Mechanized off-line combination of microbore HPLC and laser MS 271(1983)27

Lead
Quantitative TLC of lead in contaminated environmental materials after separation as tetramethylenedithiocarbamate and *in situ* determination as lead sulphide (in German) 259(1983)195

Lecithins
Influence of corticosteroid therapy on the fatty acid composition of serum lecithins monitored by means of TLC and GLC 273(1983)187

Lectins
Studies on lectins. LIV. Affinity electrophoresis of lectins and trypsin on affinity gels prepared from Sephadex derivatives incorporated into a polyacrylamide gel matrix 257(1983)297

Leukotrienes
Rapid extraction of leukotrienes from biologic fluids and quantitation by HPLC 275(1983)468

Levan
Isolation of levanoligosaccharides from a partial acid hydrolysate of levan by cellulose CC 265(1983)374

Levanoligosaccharides
Isolation of levanoligosaccharides from a partial acid hydrolysate of levan by cellulose CC 265(1983)374

Lidocaine
Determination of lidocaine in postmortem fluids and tissues 268(1983)329

Light-scattering detector
Use of light scattering as a detector principle in LC 265(1983)1

Lignans
HPLC of aryltetrahydronaphthalene lignans 255(1983)247

Lignin
Rapid microdetermination of alkoxyl groups by GC. Application to lignin (in French) 264(1983)155

Lignins
High-performance size exclusion chromatography of low-molecular-weight lignins and model compounds 267(1983)249

Lincomycin
LC determination of lincomycin in fermentation beers 264(1983)241

Linoleic acid
Direct HPLC separation of hydroperoxide isomers of linoleic acid 258(1983)280

Analysis of 1,2-diols of linoleic, α-linolenic and arachidonic acid by GC-MS using cyclic alkyl boronic esters 275(1983)245

α-Linolenic acid
Analysis of 1,2-diols of linoleic, α-linolenic and arachidonic acid by GC-MS using cyclic alkyl boronic esters 275(1983)245

Linuron
Simplified heptafluorobutyrylation on linuron and its metabolite 3,4-dichloroaniline 262(1983)328

Lipid hydroperoxides
HPLC of hydroperoxy derivatives of stearoyllinoleoylphosphatidylcholine and of their enzymatic reduction products 270(1983)301

Lipids
LC-MS of polar lipids. Comparison of on-line method using direct liquid introduction interface with off-line method using desorption/chemical ionization 251(1982)189

Separation of lipids from Antarctic krill (*Euphausia superba* Dana) by isocratic HPLC on silica using a flow-program 252(1982)331

In situ quantitation of lipids by TLC using reflectance densitometry 254(1983)247

Simple and rapid purification of acidic lipids from rat brains 260(1983)513

Chromarod separations for the analysis of marine lipid classes by Iatroscan TLC-flame ionization detection 262(1983)103

Thermal-UV method for differential detection and recovery of organic compounds in TLC 265(1983)193

Silicic acid CC of phosphonolipids. V. Separation of phosphono-amide AGEPC, phosphono-amide AGEPE, monoether biphosphono-, diether phosphono-glycerides and diacetyl phosphono-glycerides from their phosphoryl analogues and other related lipids and phospholipids 270(1983)344

Strategy of glycerolipid separation and quantitation by complementary analytical techniques. Plenary lecture 273(1983)43

GLC analysis of intact long-chain triglycerides 273(1983)172

GLC profiling of intact lipids. Observation of differences between triglyceride structure of lipoproteins in type III and type IV hyperlipoproteinemia 273(1983)180

Chromatographic analysis of blood lipids. Comparison between GC and TLC with flame ionization detection 275(1983)295

Lipophilicity
see also Hydrophobicity

Influence of eluent composition on lipophilicity measurements using reversed-phase TLC 270(1983)87

Effect of support characteristics on the determination of the lipophilicity of some neutral, acidic and alkaline compounds by reversed-phase TLC 270(1983)97

Lipopolysaccharides
Characteristics of immobilized histamine for pyrogen adsorption 262(1983)193

Lipoproteins
GLC profiling of intact lipids. Observation of differences between triglyceride structure of lipoproteins in type III and type IV hyperlipoproteinemia 273(1983)180

Liquid chromatography-mass spectrometry coupling
How to interface a chromatographic column to a mass spectrometer 271(1983)13

Liquid chromatography, nomenclature
Nomenclature of LC. On the description of small-diameter columns used in LC (Review) 251(1982)265

Liquid crystals
Liquid-crystalline stationary phases for GC (Review) 251(1982)311

Liquid crystals as stationary phases in GLC. V. Thermodynamic study of solutions in azoxy-4,4'-(diundecyl α-methyl cinnamate) and cholesteryl nonanoate; Kinetics of phase transitions of cholesteryl nonanoate (in French) 261(1983)11

Properties of single and mixed liquid-crystalline stationary phases. I. Single liquid-crystalline stationary phases 262(1983)141

Properties of single and mixed liquid-crystalline stationary phases. II. Mixed liquid-crystalline stationary phases 262(1983)161

GC behaviour of hydroxynaphthalenes and derivatives on liquid crystal stationary phases 262(1983)175

Liquid crystals. IV. Study of the supercooling effect on laterally substituted liquid crystalline compounds 264(1983)279

Liquid modifiers
Liquid modifiers in reversed-phase LC with graphitized carbon black adsorbents 269(1983)47

Lisetin
Isolation of jamaicin and lisetin and their determination in *Piscidia erythrina* L. by HPLC 260(1983)497

Lithium salts
Dependence of the calcium distribution coefficient on a strongly acidic cation-exchange resin on the anion of strong acids and their lithium salts 262(1983)211

Loadability
Mass loadability of chromatographic columns 255(1983)395

Local-composition theory
Application of local-composition theory to reversed-phase LC 268(1983)277

Localization phenomena
Mobile phase effects in LSC. Importance of adsorption-site geometry, adsorbate delocalization and hydrogen bonding 255(1983)3

Loop sampler
Automatic device for injection and multiple column switching in HPLC 260(1983)33

Low-molecular-weight compounds
Selective and preparative gel chromatographic separation of low-molecular-weight substances on Sephadex LH-20 (in German) 254(1983)296

Interaction between low-molecular-weight compounds and nitrile-based polymers 267(1983)101

Lubricating oils
Analysis of metal deactivators in lubricating oils 260(1983)137

Lupanine
Capillary GC of lupin alkaloids 261(1983)95

Lupin alkaloids
Capillary GC of lupin alkaloids 261(1983)95

Luteinizing hormone-releasing hormone
Simple, efficient ternary solvent system for the separation of luteinizing hormone-releasing hormone and enkephalins by reversed-phase HPLC 266(1983)67

HPLC preparation of single-site carrier-free pancreatic polypeptide hormone radiotracers 266(1983)239

Lysergic acid diethylamide
LC-MS in the pharmaceutical industry: objectives and needs 251(1982)141

Lysoglycerophospholipids
Phospholipid analysis and fatty acid content in platelets by the combination of HPLC and glass capillary GLC 275(1983)400

Lysophosphatidylcholine
In situ quantitation of lipids by TLC using reflectance densitometry 254(1983)247

Lysosomal enzymes
Determination of 4-methylumbelliferone after separation from its conjugates by HPLC. Application to lysosomal enzyme activity assays 272(1983)67

Lysozyme
Purification of trypsin and other basic proteins by high-performance cation-exchange chromatography 266(1983)633

M

Macrolides
TLC of erythromycins and other macrolides 256(1983)164

Macromolecules
Separation of macromolecules by reversed-phase HPLC. Pore-size and surface-area effects for polystyrene samples of varying molecular weight 255(1983)163

Separation by flow (hydrodynamic chromatography) of macromolecules performed in open microcapillary tubes 260(1983)297

Malathion
GC determination of raspberry ketone and malathion in insect bait concentrates 259(1983)176

Maleic vinyl ether
Determination of the biological response modifier MVE-2 (AD-022) in biological fluids by HPLC 272(1983)200

Maltodextrins
Accelerated reversed-phase chromatography of carbohydrate oligomers 254(1983)143

Malto-oligosaccharides
Influence of mutarotation catalysts on the LC of malto-oligosaccharides on a cation-exchange resin 267(1983)347

Mandelic acid
Enantiomeric resolution of amino acids by high-performance ligand-exchange chromatography using histidine-bonded silica gel 260(1983)75

Mannose
Complete separation and quantification of neutral sugars from plant cell walls and mucilages by HPLC 256(1983)157

Separation and determination of neutral monosaccharides using methanolysis and HPLC 259(1983)334

Mannuronic acid
Determination of the uronic acid composition of alginates by HPLC 264(1983)137

Mass loadability
Mass loadability of chromatographic columns 255(1983)395

MCPA
Determination of 2-methoxy-3,6-dichlorobenzoic acid, 2,4-dichlorophenoxyacetic acid and 2-methyl-4-chlorophenoxyacetic acid in emulsifiable pesticide concentrates by HPLC 259(1983)181

MDL 17,043
Quantitative determination of cardiotonic agent MDL 17,043 in plasma by reversed-phase HPLC 272(1983)396

Meclozine
Analysis of some commercial preparations for migraine treatment using ion-pair HPLC with addition of salts to the mobile phase 261(1983)345

α-Melanocyte stimulating hormone
Dyes permit immediate evaluation of HPLC system performance. Application to HPLC with radioimmunoassay detection 275(1983)407

β-Melanotropin
Optimization of a melanotropin-receptor binding assay by reversed-phase HPLC 266(1983)567

Melperone
Quantitative analysis of melperone in human plasma by GC-MS-selected ion monitoring 274(1983)121

Membrane dryer
Problems with a Nafion membrane dryer for drying chromatographic samples 269(1983)1

Membrane proteins
Reversed-phase HPLC purification of subunits of oligomeric membrane proteins. The nuclear coded subunits of yeast cytochrome *c* oxidase 266(1983)585

Menthofuran
Estimation of menthone, menthofuran, menthyl acetate and menthol in peppermint oil by capillary GC 253(1982)109

Menthol
Estimation of menthone, menthofuran, menthyl acetate and menthol in peppermint oil by capillary GC 253(1982)109

Menthone
Estimation of menthone, menthofuran, menthyl acetate and menthol in peppermint oil by capillary GC 253(1982)109

Menthyl acetate
Estimation of menthone, menthofuran, menthyl acetate and menthol in peppermint oil by capillary GC 253(1982)109

O-((-)-Menthyl)-N,N'-diisopropylisourea
Use of O-((-)-menthyl)-N,N'-diisopropylisourea for the preparation of diastereomeric menthyl esters for the chromatographic resolution of enantiomeric carboxylic acids 275(1983)161

Menthyl esters
Use of O-((-)-menthyl)-N,N'-diisopropylisourea for the preparation of diastereomeric menthyl esters for the chromatographic resolution of enantiomeric carboxylic acids 275(1983)161

Mepensolate
Direct LC resolution of racemic drugs using α_1-acid glycoprotein as the chiral stationary phase 269(1983)71

Mepivacaine
Direct LC resolution of racemic drugs using α_1-acid glycoprotein as the chiral stationary phase 269(1983)71

Mercury
Chromatographic study of the reaction of mercury(II) and silver(I) ions with nickel dithiocarbamate complexes derived from some aromatic amine drugs 254(1983)123

Metal chelates
Multi-element analysis of trace metals in some environmental samples by solvent extraction and HPLC of metal chelate complexes 256(1983)253

Clay CC for optical resolution of tris(chelated) and bis(chelated) complexes on a Λ-Ru(1,10-phenanthroline$_3^{2+}$-montmorillonite column 262(1983)41

Behaviour of aromatic β-diketones and their metal chelates on silica gel layers 270(1983)313

Metal complexes
Reversed-phase HPLC of diethyldithiocarbamate complexes using radial compression columns 252(1982)185

LC of metal complexes of N-disubstituted dithiocarbamic acids. V. Determination of equilibrium and rate constants for ligand-exchange reactions by HPLC 258(1983)223

Metal coordination complexes
HPLC: applications to organometallic and metal coordination compounds (Review) 251(1982)61

Metal deactivators
Analysis of metal deactivators in lubricating oils 260(1983)137

Metal β-diketonates
Behaviour of aromatic β-diketones and their metal chelates on silica gel layers 270(1983)313

Metal ions
Separation of organic and metal ions by high-voltage capillary electrophoresis 264(1983)385

Use of high-molecular-weight "neo" hydroxamic acids as the stationary phase in column extraction chromatography 270(1983)324

Metamizole
TLC determination of major metamizole metabolites in serum and urine 274(1983)289

Metanephrine
HPLC with electrochemical detection for the simultaneous determination of the methoxylated amines, normetanephrine, metanephrine and 3-methoxytyramine, in urine 274(1983)53

Methadone
Sensitive method for the determination of methadone in small blood samples 264(1983)312

Methamphetamine
Analysis of N-momo-trifluoroacetyl derivatives of amphetamine analogues by GC and MS 257(1983)45

Comparative GC analysis of narcotics. IV. Methamphetamine hydrochloride 258(1983)65

Rapid screening method for methamphetamine in urine by colour reaction in a Sep-Pak C_{18} cartridge 267(1983)381

Methane
Effective carbon number of methane in GC 256(1983)193

Methanesulphonic acid sodium salt
Novel eluent for the UV and conductometric detection of anions in unsuppressed ion chromatography 267(1983)218

Methanol
GC separation of the products of the conversion of methanol to alkenes 257(1983)392

Methionine sulphoxide
Ligand-exchange chromatography of amino acid racemates on polystyrene sorbents containing L-methionine-*d*-sulphoxide or L-methionine-*l*-sulphoxide groups 261(1983)301

3-Methoxy-4-hydroxymandelic acid
HPLC procedure for the analysis of urinary 3-methoxy-4-hydroxymandelic acid 275(1983)168

3-Methoxy-4-hydroxyphenylethyleneglycol
Simultaneous multiple electrode LC-electrochemical assay for catecholamines, indoleamines and metabolites in brain tissue 255(1983)533

A new internal standard suitable for the GC determination of 3-methoxy-4-hydroxyphenylethyleneglycol 273(1983)393

3-Methoxy-4-hydroxyphenylethylene glycol
Simultaneous determination of the three major monoamine metabolites in cerebrospinal fluid by HPLC with electrochemical detection 275(1983)11

N-(*p*-Methoxyphenyl)-glycosylamines
Sensitive analysis of aldose sugars by reversed-phase HPLC 253(1982)124

5-Methoxypsoralene
Determination of 5-methoxypsoralene in plasma by LC and spectrofluorimetric detection (in French) 272(1983)193

5-Methoxytryptamine
Separation of the indolealkylamines and their analogous tetrahydro-β-carbolines by LC 275(1983)21

3-Methoxytyramine
HPLC with electrochemical detection for the simultaneous determination of the methoxylated amines, normetanephrine, metanephrine and 3-methoxytyramine, in urine 274(1983)53

N-Methylacridinium
Comparative affinity chromatography of acetylcholinesterases from five vertebrate species 257(1983)285

Methylamine
HPLC method for the quantitative analysis of a synthetic copolymer with antitumor activity (copovithane) and methylamine in human blood plasma and urine 273(1983)319

2-Methyl-4-amino-5-hydroxymethylpyrimidine
Separation and determination of thiamine, pyrithiamine, pyridine, 2-methyl-4-amino-5-hydroxymethylpyrimidine and 4-methyl-5-(β-hydroxyethyl)thiazole by reversed-phase HPLC 258(1983)307

Methyl arachidonate
Purification of methyl arachidonate using silver resin chromatography 256(1983)460

Methylated sugars
Analysis of synthetic mixtures of partially methylated alditol acetates by capillary GC, GC-electron impact MS and GC-chemical ionization MS 253(1982)55

Methylbenzylaminoalditols
GLC resolution of sugar enantiomers as diastereoisomeric methylbenzylaminoalditols 259(1983)159

3-Methylcholanthrene
Microsomal hydroxylation of 3-methylcholanthrene: analysis by computerized GC-MS 260(1983)429

Methylcyclopentanone
GC-circular dichroism system for detection of optically active substances 262(1983)321

5-Methylcytosine
Improved method for determination of 5-methylcytosine by ion-pair reversed-phase HPLC 261(1983)315

Methyldopa
Determination of the enantiomeric purity of levodopa, methyldopa, carbidopa and tryptophan by use of chiral mobile phase HPLC 257(1983)317

10,11-Methylenedioxy-N-*n*-propylnoraporphine
Analysis of N-*n*-propylnorapomorphine in plasma and tissue by capillary GC-electron-capture detection 274(1983)149

Methyl glucosides
Thermal-UV method for differential detection and recovery of organic compounds in TLC 265(1983)193

Methylhistamine
Determination of histamine, methylhistamines and histamine-*o*-phthaldialdehyde complexes by two HPLC procedures. Application to biological samples 273(1983)275

Determination of N^T-methylhistamine in urine by GC using nitrogen-phosphorus detection 275(1983)261

Methylhistidine
Determination of free methylhistidine and amino acids by HPLC 269(1983)114

4-Methyl-5-(β-hydroxyethyl)thiazole
Separation and determination of thiamine, pyrithiamine, pyridine, 2-methyl-4-amino-5-hydroxymethylpyrimidine and 4-methyl-5-(β-hydroxyethyl)thiazole by reversed-phase HPLC 258(1983)307

2-Methylindolo-α-pyrone
Simultaneous analysis of indole-3-acetic acid and detection of 4-chloroindole-3-acetic acid and 5-hydroxyindole-3-acetic acid in plant tissues by HPLC of their 2-methylindolo-α-pyrone derivatives 258(1983)155

Methylmethionine sulphonium chloride
GLC and column LC for studying vitamin U metabolism in humans and animals 273(1983)192

N-Methylmorpholine
Simultaneous determination of amines and isocyanates in working atmospheres by GLC 261(1983)253

1-Methyl-2-nitro-5-vinylimidazole
Simultaneous determination of some radiosensitizing and chemotherapeutic drugs in plasma by TLC 275(1983)223

3-Methylthiopropionate
Simple GC analysis of 3-methylthiopropionate in human urine 272(1983)166

Methyltin chlorides
GC separation of mono, di- and trimethyltin chlorides and tetramethyltin 259(1983)350

N-Methyltransferase
A highly sensitive assay for non-specific N-methyltransferase activity in rat tissues by HPLC with electrochemical detection 274(1983)331

4-Methylumbelliferone
Determination of 4-methylumbelliferone after separation from its conjugates by HPLC. Application to lysosomal enzyme activity assays 272(1983)67

N-Methylurea
HPLC of urea and related compounds with post-column derivatization 252(1982)209

Metoclopramide
Determination of metoclopramide in human plasma by HPLC 273(1983)453

Metoprolol
Minor component tablet analysis by HPTLC 257(1983)140

GC determination of metoprolol in human plasma 272(1983)103

Rapid determination of metoprolol and α-hydroxymetoprolol in human plasma and urine by HPLC 272(1983)205

GC with nitrogen-selective detection of metoprolol from human plasma after reaction with phosgene 273(1983)129

Mexiletine
Determination of mexiletine and its metabolites in serum by LC with fluorescence detection 275(1983)458

Microbore columns
see also Capillary columns, columns and small-diameter columns

Application of microbore columns to LC-MS 251(1982)129

Micro-bore HPLC for the analysis of pharmaceutical compounds 253(1982)227

HPLC using flexible fused-silica micro-packed columns 255(1983)349

Open-tubular LC with 5-10-μm I.D. culumns 268(1983)369

Micro-column liquid chromatography
Micro-column LC with multi-wavelength photometric detection. I. The OB-4 micro-column liquid chromatograph 264(1983)69

Middle mass molecules
Ionization of middle mass molecules: ejection of ions from solution 271(1983)3

Migration
Zone order in isotachophoresis. The concept of the zone existence diagram and its use in cationic systems 267(1983)49

Mimosine
Analysis of mimosine and 3-hydroxy-4(1*H*)-pyridone in plasma by HPLC 265(1983)143

Minaprine
Quantitative analysis of minaprine and some of its metabolites with application to kinetic studies in rats 259(1983)141

Mitomycin C
LC and MS analysis of mitosane and mitosene derivatives of mitomycin C 262(1983)231

LC determination of mitomycin C in human plasma and urine 274(1983)263

Mitosanes
LC and MS analysis of mitosane and mitosene derivatives of mitomycin C 262(1983)231

Mitosenes
LC and MS analysis of mitosane and mitosene derivatives of mitomycin C 262(1983)231

MM 19290
HPLC comparison of the tunicaminyluracil-based antibiotics corynetoxin, tunicamycin, streptovirudin and MM 19290 268(1983)245

Mobile phase composition
Solvent composition effects with a cyano and a silica gel stationary phase in normal-phase LC of alkylphenols and naphthols 252(1982)21

Optimization of mobile phases for multisolvent gradient elution LC 255(1983)27

HPLC of amino acids, peptides and proteins. XXXIX. Reversed-phase HPLC analysis of Dns-amino acids: comparison of several different elution systems 255(1983)67

HPLC of amino acids, peptides and proteins. XL. Further studies on the role of the organic modifier in the reversed-phase HPLC of polypeptides. Implications for gradient optimisation 255(1983)125

Multifactor model for the optimization of selectivity in reversed-phase chromatography 258(1983)11

Influence of organic modifiers on the isocratic reversed-phase HPLC of flavonol glycosides from brewer's hops 258(1983)103

Comparison of retention behaviour of aromatic sulphonic acids in reversed-phase systems with mobile phases containing ion-pairing ions and in systems with solutions of inorganic salts as the mobile phases 262(1983)121

Saccharide separations in reversed-phase HPLC using *n*-alkyl amine mobile phase additives 264(1983)215

Solvent selectivity in reversed-phase HPLC separation of isomers of polystyrene oligomers 264(1983)339

Novel eluent for the UV and conductometric detection of anions in unsuppressed ion chromatography 267(1983)218

Influence of mutarotation catalysts on the LC of malto-oligosaccharides on a cation-exchange resin 267(1983)347

Liquid modifiers in reversed-phase LC with graphitized carbon black adsorbents 269(1983)47

Modeling of analyte response to changing eluent composition in suppressed ion chromatography 269(1983)202

HPLC on dynamically modified silica. IV. Effects of variations of pH, ionic strength and buffer composition in eluents containing cetyltrimethylammonium bromide 270(1983)77

Influence of eluent composition on lipophilicity measurements using reversed-phase TLC 270(1983)87

Mobile phase effects
Mobile phase effects in LSC. Importance of adsorption-site geometry, adsorbate delocalization and hydrogen bonding 255(1983)3

Mobile phase removal
Effects of intermediate mobile phase removal on column performance in two-dimensional CC 265(1983)159

Mobile phase velocity
Peak dispersion and mobile phase velocity in LC: the pertinent relationship for porous silica 270(1983)51

Mobility
Isotachophoretic determination of mobility and pK_a by means of computer simulation. I. Estimation of accuracy of the evaluated constants 252(1982)33

Isotachophoretic determination of mobility and pK_a by means of computer simulation. II. Evaluation of m_o and pK_a of 65 anions 252(1982)49

Molecular weight determination
Rapid molecular weight determination for native glucocerebrosidase from human placenta using HPLC 261(1983)419

Use of chromatographic data to determine the molecular weight of a solute eluted from an LC column 270(1983)29

Molecular weight distributions
Densimetric detection in GPC. VII. Calculation of molecular weight distributions using a programmable pocket calculator 259(1983)381

Molybdenum cofactor
Reversible immobilization of molybdenum cofactor on a gel matrix via sulphydryl groups 267(1983)409

Monensin
Preparative reversed-phase HPLC of monensin A and B sodium salts 268(1983)315

Monoacetylputrescine
Analysis of polyamines and acetyl derivatives by a single automated amino acid analyzer technique 273(1983)263

Monoamine oxidase
A new assay of monoamine oxidase by GC 274(1983)313

Monomethoxypoly(ethylene glycol)-Sephadex
Poly(ethylene glycol)- and poly(vinyl alcohol)-substituted carbohydrate gels for "mild" hydrophobic chromatography 254(1983)83

Monosaccharides
Analysis of synthetic mixtures of partially methylated alditol acetates by capillary GC, GC-electron impact MS and GC-chemical ionization MS 253(1982)55

Analysis of phenyldimethylsilyl derivatives of monosaccharides and their role in HPLC of carbohydrates 264(1983)99

Monoterpene alcohols
Terpenoid analysis. II. The separation of some monoterpene alcohols by HPLC with electrochemical detection 260(1983)173

Morphine
HPLC separation of alkaloids from *Papaver somniferum* on a Zorbax NH_2 analytical column 253(1982)120

GC study of the urinary codeine-to-morphine ratios in controlled codeine consumption and in mass screening for opiate drugs 267(1983)117

Assay for codeine, morphine and ten potential urinary metabolites by GC-mass fragmentography 275(1983)307

Multichannel detectors
Applications of rapid-scanning multichannel detectors in chromatography. Plenary lecture 273(1983)3

Multichannel spectrophotometric detector
Applications of three-dimensional UV absorbance-HPLC patterns for the analysis of plant extracts 268(1983)522

Multidimensional column chromatography
Theoretical investigation of the potentialities of the use of a multidimensional column in chromatography 255(1983)415

Multiwavelength detector
The development of a multiwavelength detector for HPLC 259(1983)59

Muramyldipeptide
Calculation of the rate constant of a reversible reaction from the chromatographic peaks for muramyldipeptide anomers 260(1983)478

Muscle proteins
Gel filtration in sodium dodecyl sulphate of hydrophobic muscle proteins on Sephacryl S-400 Superfine 254(1983)203

Mushrooms
Screening of hallucinogenic mushrooms with HPLC and multiple detection 270(1983)293

Mutagenic compounds
Isolation of a mutagenic fraction from aqueous extracts of the wild edible mushroom *Lactarius necator* (a preliminary note) 255(1983)529

Mutarotation catalysts
Influence of mutarotation catalysts on the LC of malto-oligosaccharides on a cation-exchange resin 267(1983)347

MVE-2
Determination of the biological response modifier MVE-2 (AD-022) in biological fluids by HPLC 272(1983)200

Mycotoxins
Use of chromotropic acid for improved TLC visualization of trichothecene mycotoxins 261(1983)130

Separation of the mycotoxins α- and β-cyclopiazonic acids using DEAE-cellulose 262(1983)446

HPLC determination of ochratoxin A in artificially spiked cocoa beans 265(1983)353

Myelin basic protein
Separation of myelin basic protein peptide 43-88 and its fragments by analytic and preparative HPLC 254(1983)211

Myoglobin
Raman spectroscopic detection of haemoproteins in the eluate from HPLC 254(1983)285

Myo-inositol
Quantitative determination of myo-inositol in pharmaceutical preparations and organic extracts by HPLC using fluorescence 257(1983)405

Myosin
Separation of myosin light chains by high-speed gel filtration on TSK-GEL SW columns 260(1983)210

Peptide mapping of myosin light chains by HPLC 264(1983)164

Myotropic peptide
Isolation and HPLC purification of a myotropic peptide from the hindgut of the crayfish, *Procambarus clarkii* 261(1983)158

Myricetin
Influence of organic modifiers on the isocratic reversed-phase HPLC of flavonol glycosides from brewer's hops 258(1983)103

Myrtle berries
GC-MS investigation of the volatile components of myrtle berries (*Myrtus communis* L.) 264(1983)304

N

NAD
Micro HPLC separations of bile acids 258(1983)125

NADP
Purification of NADP by high-performance anion-exchange chromatography 266(1983)395

Nafimidone
Simultaneous determination of nafimidone [1-(2-naphthoylmethyl)imidazole], a new anticonvulsant agent, and a major metabolite in plasma by HPLC 275(1983)211

Nafion membrane dryer
Problems with a Nafion membrane dryer for drying chromatographic samples 269(1983)1

Naphthalenesulphonic acids
Comparison of retention behaviour of aromatic sulphonic acids in reversed-phase systems with mobile phases containing ion-pairing ions and in systems with solutions of inorganic salts as the mobile phases 262(1983)121

Naphthohydroxamic acids
HPLC analysis of naphtho- and anthranilohydroxamic acids 260(1983)493

Naphthols
Solvent composition effects with a cyano and a silica gel stationary phase in normal-phase LC of alkylphenols and naphthols 252(1982)21

GC behaviour of hydroxynaphthalenes and derivatives on liquid crystal stationary phases 262(1983)175

1-Naphthylamine
HPLC determination of free fatty acids with 1-naphthylamine 272(1983)251

Naphthyldiazomethane
GC and MS properties of naphthalenemethyl esters and cyclohexanemethyl esters of organic acids 260(1983)51

Naproxen
Fluorimetric determination of naproxen in serum by direct quantitative HPTLC (in German) 275(1983)463

Narceine
HPLC separation of alkaloids from *Papaver somniferum* on a Zorbax NH_2 analytical column 253(1982)120

Narcotic drugs
Comparative GC analysis of narcotics. IV. Methamphetamine hydrochloride 258(1983)65

"Net charge" model
Retention model for high-performance ion-exchange chromatography 266(1983)3

Neuropeptides
Determination of Leu-enkephalin degradation by a soluble enzyme preparation from calf-brain striatum using reversed-phase HPLC 258(1983)165

Simple, efficient ternary solvent system for the separation of luteinizing hormone-releasing hormone and enkephalins by reversed-phase HPLC 266(1983)67

Chracterization of β-endorphin immunoreactive peptides in rat pituitary and brain by coupled gel and reversed-phase HPLC 266(1983)163

Analysis of enkephalins, β-endorphins and small peptides in their sequences by highly sensitive HPLC with electrochemical detection: implications in opioid peptide metabolism 267(1983)191

Neurophysins
Heterogeneity of human pituitary neurophysins by ampholyte displacement chromatography 254(1983)309

Neurotransmitters
Automated precolumn derivatization device to determine neurotransmitter and other amino acids by reversed-phase HPLC 260(1983)371

Nickel
Development of a simultaneous GC method for the analysis of copper, nickel and vanadium at the ultra-trace level 254(1983)133

Nickel bis(dialkyldithiocarbamate)
LC of metal complexes of N-disubstituted dithiocarbamic acids. V. Determination of equilibrium and rate constants for ligand-exchange reactions by HPLC 258(1983)223

Nickel dithiocarbamate complexes
Chromatographic study of the reaction of mercury(II) and silver(I) ions with nickel dithiocarbamate complexes derived from some aromatic amine drugs 254(1983)123

Nicotine
Determination of drugs in biological samples by TLC-tandem MS 271(1983)107

Nitrate
Determination of nitrate and nitrite in water using HPLC 260(1983)189

Determination of nitrate, chloride and sulphate in drinking water by capillary free-zone electrophoresis 267(1983)455

Modeling of analyte response to changing eluent composition in suppressed ion chromatography 269(1983)202

Nitrate analysis by GLC using the nitration of 2,4-dimethylphenol in sulphuric acid 270(1983)243

Nitrile copolymers
Interaction between low-molecular-weight compounds and nitrile-based polymers 267(1983)101

Nitrite
Determination of nitrate and nitrite in water using HPLC 260(1983)189

GC determination of inorganic anions as pentafluorobenzyl derivatives 269(1983)183

Nitrobenzoic acids
α-Cyclodextrin as selective agent for the separation of *o*-, *m*- and *p*-nitrobenzoic acids by reversed-phase HPLC 253(1982)95

Nitrocellulose
Hydrophobic interaction of ribosomal ribonucleic acids on a nitrocellulose column 268(1983)285

Nitro compounds
Trace analysis for organic nitro compounds by GC-electron-capture/photoionization detection methods 260(1983)347

Nitrogen bases
Reversed-phase TLC of nitrogen bases using alkyl sulphonates as ion-pair reagents 264(1983)91

Nitrogen dioxide
Analytical study of low-concentration gases. IV. Investigation of the reaction by trapping nitrogen dioxide in air using the triethanolamine method 265(1983)69

Nitroimidazoles
R_M values, retention times and octanol-water partition coefficients of a series of 5-nitroimidazoles 259(1983)329

HPLC analysis of the new hypoxic cell radiosensitiser, Ro 03-8799, in biological samples 273(1983)327

***p*-Nitrophenol**
An internally-standardized assay for amphotericin B in tissues and plasma 274(1983)271

Nitrophenols
Determination of priority pollutant nitrophenols in water by HPLC 269(1983)208

***p*-Nitrophenyl glucuronide**
Simple and rapid ion-pair HPLC assay for *p*-nitrophenyl glucuronide in rat-liver microsomal incubations 253(1982)129

2-Nitro-α-(piperidino-methyl)-1-imidazole ethanol
HPLC analysis of the new hypoxic cell radiosensitiser, Ro 03-8799, in biological samples 273(1983)327

1-Nitropyrene
Quantitation of 1-nitropyrene in diesel exhaust particulates by capillary GC-MS and capillary GC 264(1983)231

Nitrosamines
Chemical studies on tobacco smoke. LXXV. Rapid method for the analysis of tobacco-specific N-nitrosamines by GLC with a thermal energy analyser 256(1983)347

Nomenclature, LC
Nomenclature of LC. On the description of small-diameter columns used in LC (Review) 251(1982)265

Noradrenaline
Sensitive and specific radioenzymatic assay for norepinephrine, epinephrine and dopamine based on the TLC separation of their Dns-O-methyl derivatives 254(1983)257

Simultaneous multiple electrode LC-electrochemical assay for catecholamines, indoleamines and metabolites in brain tissue 255(1983)533

Use of HPLC to study the caeruloplasmin-catalysed oxidation of biogenic amines. I. Single substrate systems 256(1983)71

Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

Use of HPLC to study the caeruloplasmin-catalysed oxidation of biogenic amines. II. Multiple substrate systems 257(1983)53

MS of biogenic catecholamine ion pairs by direct liquid introduction 271(1983)83

Postcolumn derivatization of catecholamines with 2-cyanoacetamide for fluorimetric monitoring in HPLC 274(1983)45

Noradrenaline sulphate
Determination of dopamine-O-sulfate and norepinephrine-O-sulfate isomers and serotonin-O-sulfate by HPLC using dual-electrode electrochemical detection 264(1983)119

Nordiazepam
HPLC determination of dipotassium clorazepate and its major metabolite nordiazepam in plasma 273(1983)367

Norephedrine
Assay of mixtures of phenylpropanolamine hydrochloride and caffeine in appetite suppressant formulations by HPLC 261(1983)111

Resolution of norephedrine as its 2-oxazolidone derivative: enantiomeric separation on a chiral HPLC stationary phase and preparative regeneration of the resolved isomers 268(1983)107

Norepinephrine
see Noradrenaline

Normetanephrine
HPLC with electrochemical detection for the simultaneous determination of the methoxylated amines, normetanephrine,

metanephrine and 3-methoxytyramine, in urine 274(1983)53

Norpethidine
A simplified method for the GC determination of pethidine and norpethidine after derivatization with trichloroethyl chloroformate 274(1983)355

Noscapine
Determination of noscapine in serum by HPLC 274(1983)381

Determination of noscapine in plasma by LC 275(1983)355

Novor compounds
Analysis of Novor compounds in cross-linked natural rubber products 268(1983)515

Nuclear magnetic resonance spectroscopy
Characterization of chemically modified silica gels by ^{29}Si and ^{13}C cross-polarization and magic angle spinning NMR 264(1983)197

Nucleic acids
Operational variables in high-performance gel filtration of DNA fragments and RNAs 266(1983)341

New ion exchanger for the separation of proteins and nucleic acids 266(1983)385

Nucleobases
see also Purines and pyrimidines

Stationary phase effects on the reversed-phase LC retention behavior of purine and pyrimidine compounds 255(1983)151

Operating parameters in high-performance displacement chromatography 255(1983)273

Separation of nucleic acid components and their radiation-induced degradation products on chemically bonded C_{12} 259(1983)111

Improved method for determination of 5-methylcytosine by ion-pair reversed-phase HPLC 261(1983)315

TLC of some nucleobases and nucleosides on cellulose layers 268(1983)311

"Charge transfer" TLC of nucleic acid bases and polycyclic aromatic hydrocarbons 269(1983)103

Nucleosides
HPLC method for the separation of the halogenated pyrimidine 5-bromo-2'-deoxyuridine from its metabolites 252(1982)335

Preparative separation of nucleosides and nucleotides on a non-ionic gel column 253(1982)133

Quantitative HPLC of structurally similar nucleosides 254(1983)315

Stationary phase effects on the reversed-phase LC retention behavior of purine and pyrimidine compounds 255(1983)151

Operating parameters in high-performance displacement chromatography 255(1983)273

Separation of nucleic acid components and their radiation-induced degradation products on chemically bonded C_{12} 259(1983)111

Isotachophoretic analyses of anions at high pH 260(1983)471

Reversed-phase HPLC separation of nucleosides and nucleotides 261(1983)83

High-performance displacement chromatography of nucleic acid fragments in a tandem enzyme reactor-liquid chromatograph system 266(1983)319

TLC of some nucleobases and nucleosides on cellulose layers 268(1983)311

HPLC assay for cytosine arabinoside, uracil arabinoside and some related nucleosides 274(1983)87

Nucleotides
Off-line combination of LC and field desorption MS: principles and environmental, medical and pharmaceutical applications 251(1982)105

HPLC in combination with field desorption MS: separation and identification of building blocks for polynucleotide synthesis 253(1982)65

Preparative separation of nucleosides and nucleotides on a non-ionic gel column 253(1982)133

Quantitative structure-retention relationships for dinucleoside monophosphates as a function of pH 253(1982)252

High-performance anion-exchange chromatography of oligonucleotides 255(1983)137

Stationary phase effects on the reversed-phase LC retention behavior of purine and pyrimidine compounds 255(1983)151

Operating parameters in high-performance displacement chromatography 255(1983)273

HPLC of some AMP derivatives used as affinity ligands 258(1983)199

Separation of nucleic acid components and their radiation-induced degradation products on chemically bonded C_{12} 259(1983)111

Volatile buffer system for high-performance anion-exchange chromatography of nucleotides 260(1983)161

Comparison of several HPLC techniques for the separation of oligodeoxynucleotides according to their chain lengths 260(1983)419

Reversed-phase HPLC separation of nucleosides and nucleotides 261(1983)83

Separation of sulphur-containing substances, amino acids and nucleotides during gel filtration on Trisacryl GF05 by specific gel interaction 264(1983)111

Preparative isolation of mono-, di- and tripurine nucleotides from hydrolyzates of depyrimidinated herring sperm DNA (in German) 265(1983)257

High-performance displacement chromatography of nucleic acid fragments in a tandem enzyme reactor-liquid chromatograph system 266(1983)319

Dual-wavelength UV-adsorption detection in capillary isotachophoresis 267(1983)75

Affinity chromatography study of the interaction of ribonucleotides with bovine pancreatic ribonuclease covalently bound to Sepharose 4B 268(1983)255

Chemically synthesized hydrophobic anion-exchange HPLC supports used for oligonucleotide resolution by mixed mode chromatography 270(1983)117

Isocratic reversed-phase LC separation of 3',5'-cyclic ribonucleotides 272(1983)373

Determination of adenine, adenosine and related nucleotides at the low picomole level by reversed-phase HPLC with fluorescence detection 275(1983)178

Improved method for high energy nucleotide analysis of canine cardiac muscle using reversed-phase HPLC 275(1983)411

O

Ochratoxin A
HPLC determination of ochratoxin A in artificially spiked cocoa beans 265(1983)353

Octadecenoic acid
Isolation of *trans*-hexadecenoic and *trans*-octadecenoic fatty acid methyl esters from lipid extracts by means of argentation and reversed-phase TLC 256(1983)185

Octadecyl-silica
Potential *in situ* regeneration of octadecyl-silica columns 253(1982)260

Quantitative determination of the degree of capping and structural investigation of octadecylsilane phases by means of pyrolysis in GC 262(1983)183

Octadecyltriethoxysilane
Potential *in situ* regeneration of octadecyl-silica columns 253(1982)260

Octanal
Investigation of the possible oxidation by ozone of organic substrates adsorbed on Tenax 269(1983)179

3-Octanol
Comparison of three derivatives for the enantiomeric separation of chiral alcohols and the absolute configuration of *Myrmica* ant 3-octanol 260(1983)411

Octanol
Investigation of the possible oxidation by ozone of organic substrates adsorbed on Tenax 269(1983)179

Octaphenylcyclotetrasiloxane
Thermostable deactivation reagents for capillary column preparation 260(1983)168

Oestradiol
HPLC separation of catechol estrogens: use as a screening procedure for evaluation of *in vitro* metabolism of [^{3}H]estradiol 256(1983)335

Rapid simultaneous assay of serum estrone, estradiol, and estriol in pregnant women using methyl ether acetate derivatives by capillary GC and electron-impact MS 272(1983)233

Oestriol
Purification of ^{125}I-labelled compounds by HPLC with on-line detection 254(1983)229

Adsorption chromatographic separation of ^{125}I-labelled estriol and estriol-6-(O-carboxymethyl)oxime tyrosine methyl ester 267(1983)420

Rapid simultaneous assay of serum estrone, estradiol, and estriol in pregnant women using methyl ether acetate derivatives by capillary GC and electron-impact MS 272(1983)233

Oestriol-6-(O-carboxymethyl)oxime tyrosine methyl ester
Adsorption chromatographic separation of ^{125}I-labelled estriol and estriol-6-(O-carboxymethyl)oxime tyrosine methyl ester 267(1983)420

Oestrogen acetates
TLC systems for the separation of some estrogen acetates 256(1983)375

Oestrogen conjugates
Separation of steroid conjugates by HPLC (Review) 251(1982)289

Oestrogen receptors
Rapid analysis of estrogen receptor heterogeneity by chromatofocusing with HPLC 266(1983)115

Use of HPLC in the evaluation of the synthesis and binding of fluorescein-linked steroids to estrogen receptors 266(1983)129

Oestrogens
Separation of oestrogens in biological fluids and synthetic mixtures on Sephadex G-type gels (Review) 271(1983)325

Oestrone
Rapid simultaneous assay of serum estrone, estradiol, and estriol in pregnant women using methyl ether acetate derivatives by capillary GC and electron-impact MS 272(1983)233

Oils
Shale oil characterization by HPLC and optical activity detection 253(1982)199

Comparison of methods of analysis of polychlorinated biphenyls in oils 257(1983)255

Olefins
Porous sulphonic acid resins as subtractor for olefins in GC 254(1983)270

Platinum complexes in reversed- and normal-phase chromatography. Analytical- and preparative-scale separations of enantiomeric olefins 255(1983)311

Oligodeoxynucleotides
Comparison of several HPLC techniques for the separation of oligodeoxynucleotides according to their chain lengths 260(1983)419

Oligomers
Separation of oligomers by high-performance micro gel permeation chromatography 257(1983)327

Oligonucleotides
High-performance anion-exchange chromatography of oligonucleotides 255(1983)137

Comparison of several HPLC techniques for the separation of oligodeoxynucleotides according to their chain lengths 260(1983)419

Chemically synthesized hydrophobic anion-exchange HPLC supports used for oligonucleotide resolution by mixed mode chromatography 270(1983)117

Oligosaccharides
Characterization of heparins by high-performance size exclusion LC 261(1983)287

Preparation of lacto-N-neotetraose from human milk by HPLC 262(1983)426

HPLC analysis of even- and odd-numbered hyaluronate oligosaccharides 265(1983)19

Open parallel plate columns
Capillary LC in field flow fractionation-type channels 255(1983)359

Open-tubular columns
LC in open-tubular columns. Theory of column optimization with limited pressure and analysis time, and fabrication of chemically bonded reversed-phase columns on etched borosilicate glass capillaries 255(1983)335

Opium alkaloids
HPLC separation of alkaloids from *Papaver somniferum* on a Zorbax NH_2 analytical column 253(1982)120

Analysis of the alkaloids of *Papaver pilosum* by HPLC: application to the separation of epimers (in French) 265(1983)139

Use of HPLC to quantitate the opiate and sugar content of illicit heroin preparations 265(1983)293

Use of HPLC for the characterization and determination of the main alkaloids of *Papaver somniverum* L. (in French) 268(1983)125

Determination of noscapine in serum by HPLC 274(1983)381

Optical activity measurement
New ways to increase the specificity of detection in LC (Review) 251(1982)1

Optically active substances
GC-circular dichroism system for detection of optically active substances 262(1983)321

Optimization
Optimization of mobile phases for multisolvent gradient elution LC 255(1983)27

Optimization and evaluation of packed capillary columns for HPLC 255(1983)381

Multifactor model for the optimization of selectivity in reversed-phase chromatography 258(1983)11

Calculation of the retention time and peak width for the purpose of optimized GC analysis 260(1983)255

Computer assistance in the selection of the optimum combination of systems for two-dimensional chromatography 264(1983)1

Solvent selectivity in reversed-phase HPLC separation of isomers of polystyrene oligomers 264(1983)339

Modeling of analyte response to changing eluent composition in suppressed ion chromatography 269(1983)202

Optimization of the instrumental parameters of a combined liquid chromatography-mass spectrometer, coupled by an interface for direct liquid introduction. IV. A new desolvation chamber for droplet focusing or Townsend discharge ionization 271(1983)43

Orange 1
Separations of position-isomeric aromatic sulphonates by high-voltage electrophoresis in dimethylformamide (in German) 268(1983)477

Orange 2
Separations of position-isomeric aromatic sulphonates by high-voltage electrophoresis in dimethylformamide (in German) 268(1983)477

Organic acids
see also Carboxylic acids

High-performance anion-exchange chromatography of organic acids 257(1983)23

Complex-forming equilibria in isotachophoresis. III. Estimation of optimum separation conditions of several organic acids by means of computer simulation 257(1983)197

High-performance ion chromatography of anions 259(1983)459

GC and MS properties of naphthalenemethyl esters and cyclohexanemethyl esters of organic acids 260(1983)51

Ischemic change of organic acids in kidney 272(1983)227

Organic anions
Dynamically coated columns and conductivity detection for trace determination of organic anions by ion chromatography 262(1983)311

Organic compounds
Multielemental microanalysis of organic compounds using GC 261(1983)265

Modification of the determination of organic compounds by headspace GC after sorption on solid sorbents and liquid desorption 262(1983)199

Elemental microanalysis of organic and organometallic compounds using pyrolysis-GC 268(1983)219

Organic ions
HPLC of inorganic and organic ions using low-capacity ion-exchange columns with indirect refractive index detection 252(1982)177

Organic material
Evaluation of a Teflon block extraction procedure for determination of organic material in air particulate matter 269(1983)161

Organic modifiers
HPLC of amino acids, peptides and proteins. XL. Further studies on the role of the organic modifier in the reversed-phase HPLC of polypeptides. Implications for gradient optimisation 255(1983)125

Influence of organic modifiers on the isocratic reversed-phase HPLC of flavonol glycosides from brewer's hops 258(1983)103

Use of various organic modifiers in TLC on chemically bonded phases 265(1983)105

Organometallic compounds
HPLC: applications to organometallic and metal coordination compounds (Review) 251(1982)61

Analysis of organometallic compounds by LC 257(1983)59

Elemental microanalysis of organic and organometallic compounds using pyrolysis-GC 268(1983)219

HPLC of bis(η^5-1,2,3,4,5-pentamethylcyclopentadienyl)-titanium, zirconium and hafnium dichlorides 269(1983)11

Organometallic copolymers
Characterization of organometallic copolymers and copolymerization by size-exclusion chromatography coupled with trace metal- and mass-sensitive detectors 255(1983)439

Organophosphorus compounds
Column temperature effects on GC responses to organophosphorus pesticides 264(1983)33

Rapid method for the detection of oxygen analogues of fenthion, disulphoton and phorate on thin-layer plates 268(1983)352

Organotin compounds
HPLC determination of dialkyltin homologues using fluorescence detection 258(1983)189

GC separation of mono, di- and trimethyltin chlorides and tetramethyltin 259(1983)350

HPLC determination of cyhexatin in technical and wettable pesticide powders 260(1983)200

Organotransition-metal complexes
LC-spectrometry with the buffer-memory technique 258(1983)81

Ornidazole
Measurement of ornidazole by HPLC 273(1983)475

Orotic acid
Simultaneous determination of plasma and urinary uric acid, xanthine, hypoxanthine, allopurinol, oxipurinol, orotic acid, orotidine and creatinine by HPLC 274(1983)75

Orotidine
Simultaneous determination of plasma and urinary uric acid, xanthine, hypoxanthine, allopurinol, oxipurinol, orotic acid, orotidine and creatinine by HPLC 274(1983)75

Ovalbumin
Improved recovery of ovalbumin by reversed-phase HPLC 256(1983)172

Detection of neutral and aminosugars from glycoproteins and polysaccharides as their alditol acetates 256(1983)419

Overpressured thin-layer chromatography
Investigations and results obtained with overpressured TLC 262(1983)113

Oxazepam
Resolution by affinity chromatography: stereoselective binding of racemic oxazepam esters to human serum albumin 259(1983)494

Oxazolidine-2-thiones
Determination of oxazolidine-2-thiones in biological fluids in the ppb range 252(1982)225

Oxazolidinones
Single-column GC analysis of amino acid oxazolidinones 252(1982)217

Oxcarbazepine
Quantitative determination of oxcarbazepine 274(1983)417

Determination of oxcarbazepine in human plasma by HPLC 275(1983)189

Oxipurinol
Simultaneous determination of plasma and urinary uric acid, xanthine, hypoxanthine, allopurinol, oxipurinol, orotic acid, orotidine and creatinine by HPLC 274(1983)75

Oxmetidine
Comparison of two HPLC methods for the determination of oxmetidine and its metabolites in plasma, bile and urine samples 273(1983)335

Oxprenolol
Multiple inverse isotope dilution assay for oxprenolol and nine metabolites in biological fluids 259(1983)301

Multiple inverse isotope dilution assay for the stereospecific determination of *R*(+)- and *S*(-)-oxprenolol in biological fluids 259(1983)311

Oxyanions
Separation and analysis of sulfate, phosphate and other oxyanions as their *tert.*-butyldimethylsilyl derivatives by GLC and MS 257(1983)37

Oxygen
Thermal decomposition of polyethylene glycol 20M and essential oils in GLC and the effect of traces of oxygen 269(1983)171

Oxyhaemoglobin
Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. III. Features of solutes and biological particles detected by the partition technique 256(1983)49

Characteristics of protein-aqueous medium interactions measured by partition in aqueous Ficoll-Dextran biphasic system 260(1983)329

Oxypertine
Determination of oxypertine in human serum by HPLC 274(1983)413

Oxyphenbutazone
Determination of oxyphenbutazone in human plasma by HPLC 275(1983)201

Oxyphencyclimine
Direct LC resolution of racemic drugs using α_1-acid glycoprotein as the chiral stationary phase 269(1983)71

Oxytocin
HPLC of tyrosine-related peptides with electrochemical detection 262(1983)420

Amino acids and peptides. CLXXXI. Separation of diastereoisomers of oxytocin analogues 264(1983)459

Ozone
Investigation of the possible oxidation by ozone of organic substrates adsorbed on Tenax 269(1983)179

P

Packing irregularities
Effect of packing irregularities along the bed length 262(1983)19

Packings
Size exclusion chromatography of polymer molecules on microparticulate silica gels: a comparative study 260(1983)41

Paint solvents
Rapid determination of solvent components in paint by computer-aided fused-silica capillary GC 256(1983)303

Pairing ion concentration
Studies in ion-pair chromatography. II. Retention of positive and negative ions and neutral solutes in tetrabutylammonium bromide-containing methanol-water eluents on LiChrosorb RP-18 265(1983)171

Palmitic acid
In situ quantitation of lipids by TLC using reflectance densitometry 254(1983)247

Palm trees
New LC approaches for free amino acid analysis in plants and insects. II. TLC analysis for eighteen varieties of palm trees 260(1983)147

Pancreatic polypeptide
HPLC preparation of single-site carrier-free pancreatic polypeptide hormone radiotracers 266(1983)239

Papain
Purification of papain by affinity chromatography 262(1983)346

Papaverine
HPLC separation of alkaloids from *Papaver somniferum* on a Zorbax NH_2 analytical column 253(1982)120

Reversed-phase TLC of nitrogen bases using alkyl sulphonates as ion-pair reagents 264(1983)91

Parabens
Simultaneous determination of hexylcaine hydrochloride and parabens in solution by HPLC 257(1983)400

Paraffin oil
Effect of support characteristics on the determination of the lipophilicity of some neutral, acidic and alkaline compounds by reversed-phase TLC 270(1983)97

Paralytic shellfish poisons
Separation of tetrodotoxin and paralytic shellfish poisons by HPLC with a fluorometric detection using *o*-phthalaldehyde 257(1983)373

Paraquat
HPLC of paraquat and diquat in urine with rapid sample preparation involving ion-pair extraction on disposable cartridges of octadecyl-silica 255(1983)483

Parathyroid hormone antagonist
Semi-preparative HPLC purification of a 28-amino acid synthetic parathyroid hormone antagonist 266(1983)313

Partial solvent trapping
Partial solvent trapping in capillary GC. Description of a solvent effect (Review) 251(1982)235

Particle size distribution
Influence of the particle size distribution of the packing material in reversed-phase HPLC 260(1983)13

Partition behaviour
Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. III. Features of solutes and biological particles detected by the partition technique 256(1983)49

Partition coefficients
Determination of partition coefficients of pyrido[1,2-*a*]pyrimidin-4-one derivatives by traditional shake, TLC and GLC methods 252(1982)67

Applicability of GLC in determining liquid-liquid partition data 252(1982)77

Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. I. Effect of ionic composition on the relative hydrophobicity of the phases 253(1982)139

Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. II. Effect of ionic composition on the hydration properties of the phases 253(1982)149

Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. III. Features of solutes and biological particles detected by the partition technique 256(1983)49

Thermochemical investigations of GLC. II. Partition coefficients of alcohol solutes on binary solvent mixtures of inert hydrocarbons 257(1983)189

R_M values, retention times and octanol-water partition coefficients of a series of 5-nitroimidazoles 259(1983)329

Mixed solvents in GLC. Activity coefficients for diethyl ether in squalane and dinonyl phthalate mixtures at 303°K 262(1983)33

Relationships between molecular connectivity indices, partition coefficients and chromatographic parameters 269(1983)91

Partitioning
Comparison between binding analyses performed by equilibrium dialysis and partitioning in aqueous two-phase systems exemplified by the binding of Cibacron Blue to serum albumin 252(1982)159

PCBs
HPLC using flexible fused-silica micro-packed columns 255(1983)349

Phosphorescence detection of polychloronaphthalenes and polychlorobiphenyls in LC 255(1983)581

Comparison of methods of analysis of polychlorinated biphenyls in oils 257(1983)255

Peak retention time analyser
Microprocessor-controlled peak retention time analyser for the determination of retention indices 267(1983)1

Peak shape
Evaluation of methods of measuring GLC retention on skewed peaks 258(1983)1

Numerical analysis of chromatographic band development of one-component systems 270(1983)7

Peak width
Calculation of the retention time and peak width for the purpose of optimized GC analysis 260(1983)255

Pefloxacin
HPLC of pefloxacin and its main active metabolites in biological fluids 272(1983)359

Pemoline
Quantitative GLC determination of pemoline using trimethylanilinium hydroxide 252(1982)319

Pendant mercury drop electrode
HPLC of organic explosives components with electrochemical detection at a pendant mercury drop electrode 257(1983)227

D-Penicillamine
Analysis of D-penicillamine in plasma by fluorescence derivatisation with N-[*p*-(2-benzoxazolyl)-phenyl] maleimide and HPLC 275(1983)89

Analysis of D-penicillamine by HPLC with glassy carbon electrochemical detection 275(1983)206

Penicillin polymers
Formation of penicillin polymers and determination of molecular weight 258(1983)262

Penicillin V
Determination of *p*-hydroxypenicillin V, *p*-hydroxyphenoxyacetic acid, phenoxyacetic acid, and penicillin V in production fermentation broth 268(1983)120

Penicilloic acid
Study on the rate of epimerization of amoxicillin β-penicilloic acid to its α-form in aqueous solutions using HPLC 255(1983)199

Pentaammine cobalt(III) complexes
Reversed-phase HPLC of pentaammine cobalt(III) complexes 262(1983)219

Pentafluorobenzoyl chloride
Pentafluorobenzoyl derivatives of doping agents. I. Extractive benzoylation and GC with electron-capture detection of primary and secondary amines 273(1983)141

Pentafluorobenzyl esters
Pentafluorobenzyl esters as derivatives for the semi-preparative HPLC of fatty acids 257(1983)174

Pentanoic acids
GC of homologous esters. XIX. Dihalogenated esters of butanoic and pentanoic acids 253(1982)264

3-Pentanol
Direct resolution of enantiomers of 2- and 3-hydroxy acid alkyl esters by fused-silica capillary GC 260(1983)63

Peppermint oil
Estimation of menthone, menthofuran, menthyl acetate and menthol in peppermint oil by capillary GC 253(1982)109

Peptide mapping
Two-dimensional peptide mapping by reversed-phase column chromatography, applied to the sequence determination of cytochrome *c* from the wild type and a mutant of the butterfly, *Pieris brassicae* 266(1983)491

Peptide positional isomers
HPLC of amino acids, peptides and proteins. XLVI. Selectivity effects of peptidic positional isomers and oligomers separated by reversed-phase HPLC 266(1983)75

Peptides
Off-line combination of LC and field desorption MS: principles and environmental, medical and pharmaceutical applications 251(1982)105

Selective modification and purification of phosphopeptides for automated sequence analysis 253(1982)243

Separation of myelin basic protein peptide 43-88 and its fragments by analytic and preparative HPLC 254(1983)211

Operating parameters in high-performance displacement chromatography 255(1983)273

Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. III. Features of solutes and biological particles detected by the partition technique 256(1983)49

Purification of synthetic analogues of yeast mating hormone by reversed-phase chromatography 256(1983)117

Reversed-phase LC of peptides for direct micro-sequencing 259(1983)121

Simple and effective direct coupling for GC-MS on the MS 50 mass spectrometer. Full spectra up to *n*-$C_{54}H_{110}$ 259(1983)445

Analysis of iodine-labelled glucagon derivatives by HPLC 260(1983)439

Improved HPLC method for analysis of histidine dipeptides anserine, carnosine and balenine present in fresh meat 261(1983)153

Isolation and HPLC purification of a myotropic peptide from the hindgut of the crayfish, *Procambarus clarkii* 261(1983)158

Side reaction of synthetic peptides during their purification by preparative HPLC using formate buffers 262(1983)411

HPLC of tyrosine-related peptides with electrochemical detection 262(1983)420

Amino acids and peptides. CLXXXI. Separation of diastereoisomers of oxytocin analogues 264(1983)459

HPTLC of diastereomeric di- and tripeptides on ready-for-use plates of silanized silica gel and on ammonium tungstophosphate layers 265(1983)328

Simple, efficient ternary solvent system for the separation of luteinizing hormone-releasing hormone and enkephalins by reversed-phase HPLC 266(1983)67

HPLC of amino acids, peptides and proteins. XLVI. Selectivity effects of peptidic positional isomers and oligomers separated by reversed-phase HPLC 266(1983)75

HPLC of amino acids, peptides and proteins. XLVIII. Retention behaviour of tryptic

peptides of human growth hormone isolated by reversed-phase HPLC: a comparative study using different chromatographic conditions and predicted elution behaviour based on retention coefficients 266(1983)89

Chracterization of β-endorphin immunoreactive peptides in rat pituitary and brain by coupled gel and reversed-phase HPLC 266(1983)163

Semi-preparative HPLC purification of a 28-amino acid synthetic parathyroid hormone antagonist 266(1983)313

Derivatizing reagents for HPLC detection of peptides at the picomole level 266(1983)401

Dual-detector methods for selective identification of prolyl residues and amide-blocked N-terminal groups in chromatographically separated peptides 266(1983)427

Two-dimensional HPLC and chemical modification in the strategy of sequence analysis. Complete amino acid sequence of the lambda light chain of human immunoglobulin D 266(1983)511

Purification of cyanogen bromide fragments from β-2-glycoprotein I by HPLC 266(1983)545

Separation of basic peptides by cation-exchange HPLC 266(1983)651

Analysis of enkephalins, β-endorphins and small peptides in their sequences by highly sensitive HPLC with electrochemical detection: implications in opioid peptide metabolism 267(1983)191

Amino acid sequence determination by GC-MS of permethylated peptides. The application of capillary columns 268(1983)197

Chromatographic behaviour of amino acids, their derivatives and peptides on layers of ammonium tungstophosphate and silanized silica gel 268(1983)493

Identification of the α chain abnormal hemoglobin Jackson (α127 Lys→Asn) after isolation of the core peptide by HPLC 269(1983)119

HPLC separation of Dns-amino acid derivatives and applications to peptide and protein structural studies 270(1983)253

Reversed-phase HPLC method for separation of collagen tryptic peptides 272(1983)366

Urinary peptides in rheumatic diseases. Separation by reversed-phase HPLC 273(1983)197

Dyes permit immediate evaluation of HPLC system performance. Application to HPLC with radioimmunoassay detection 275(1983)407

Perfluoroalkanes
GC studies of perfluorocarbon compounds. II. GC separation of mixtures of long-chain perfluoroalkanes and -alkenes (in German) 259(1983)243

Perfluoroalkenes
GC studies of perfluorocarbon compounds. II. GC separation of mixtures of long-chain perfluoroalkanes and -alkenes (in German) 259(1983)243

Perfluoro fatty acid amides
Trace analysis of amines and isocyanates using glass capillary gas chromatography and selective detection. I. Determination of aromatic amines as perfluoro fatty acid amides using electron-capture detection 267(1983)315

Trace analysis of amines and isocyanates using glass capillary GC and selective detection. II. Determination of aromatic amines as perfluorofatty acid amides using nitrogen-selective detection 270(1983)207

Perfume
HPLC-fluorometric determination of safrole in perfume, cologne and toilet water 255(1983)455

Perhexiline
A simple and sensitive method for the determination of perhexiline in plasma using GLC with nitrogen-phosphorus detection 274(1983)361

Peroxidase
Detection of neutral and aminosugars from glycoproteins and polysaccharides as their alditol acetates 256(1983)419

Peroxides
Analysis of organometallic compounds by LC 257(1983)59

HPLC of bis(2-ethylhexyl)peroxydicarbonate on spherical silica gel 267(1983)227

Pesticides
Off-line combination of LC and field desorption MS: principles and environmental, medical and pharmaceutical applications 251(1982)105

Rapid two-step preconcentration procedure for Aldicarb determination in water by HPLC using a 254-nm detector 253(1982)289

Determination of carbofuran and its metabolites 255(1983)191

HPLC of paraquat and diquat in urine with rapid sample preparation involving ion-pair extraction on disposable cartridges of octadecyl-silica 255(1983)483

Determination of fluorescent pesticides and metabolites by reversed-phase HPLC 255(1983)497

Reversed-phase HPLC of pesticides. VII. Analysis of Vinclozolin, Iprodione,

Procymidone, Dichlozolinate and their degradation product 3,5-dichloroaniline on white must and wine extracts 256(1983)176

Determination of benzomate in plant tissues by HPLC 257(1983)151

Determination of thiabendazole residues in marmalades by HPLC 257(1983)416

Chiral-phase HPLC separation of enantiomers of pyrethroid insecticide esters derived from α-cyano-3-phenoxybenzyl alcohol 258(1983)175

Simultaneous determination of active ingredient and chlorophenol impurities in phenoxy acid herbicide formulations by HPLC with UV and electrochemical detection 258(1983)302

Determination of 2-methoxy-3,6-dichlorobenzoic acid, 2,4-dichlorophenoxyacetic acid and 2-methyl-4-chlorophenoxyacetic acid in emulsifiable pesticide concentrates by HPLC 259(1983)181

Reversed-phase HPLC separation of human phenolic metabolites of propoxur (Baygon), carbofuran and carbaryl 259(1983)186

Preliminary evaluation of HPLC with photoconductivity detection for the determination of selected pesticides as potential food contaminants 259(1983)227

GC separation of mono, di- and trimethyltin chlorides and tetramethyltin 259(1983)350

HPLC determination of cyhexatin in technical and wettable pesticide powders 260(1983)200

Direct determination of some carbamate pesticides in water and soil by HPLC 260(1983)502

Determination of carbamic herbicides by HPLC. III. Triallate 261(1983)166

Quantitative structure-activity relationships for herbicides. Reversed-phase liquid chromatographic retention parameter, log k_w, *versus* liquid-liquid partition coefficient as a model of the hydrophobicity of phenylureas, *s*-triazines and phenoxycarbonic acid derivatives 261(1983)329

Simplified heptafluorobutyrylation on linuron and its metabolite 3,4-dichloroaniline 262(1983)328

Column temperature effects on GC responses to organophosphorus pesticides 264(1983)33

TLC detection of the herbicide asulam in soils and the identification of sulphanilamide as a minor soil degradation product 265(1983)378

GLC method for determining propylenthiourea in rat tissues and fluids 267(1983)427

Automated capillary GC analysis of pesticide residues in food 268(1983)55

Rapid method for the detection of oxygen analogues of fenthion, disulphoton and phorate on thin-layer plates 268(1983)352

Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. I. Fluorescence detection using post-column techniques 270(1983)267

Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. II. Fluorescence detection using ion-pair chromatography 270(1983)277

HPLC determination of hexazinone residues in soil and water 270(1983)396

Determination of phenylureas by on-line LC-MS 271(1983)51

Pethidine
A simplified method for the GC determination of pethidine and norpethidine after derivatization with trichloroethyl chloroformate 274(1983)355

Phase soaking
Observation of a peak under the action of "phase soaking" a GC solvent effect, during passage through a capillary column 259(1983)37

Retardation by phase soaking in capillary GC 260(1983)265

Phenethylamines
Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

Analysis of N-momo-trifluoroacetyl derivatives of amphetamine analogues by GC and MS 257(1983)45

Quantitative analysis of β-phenethylamines in two *Mammillaria* species (*Cactaceae*) 265(1983)357

Phenol-formaldehyde resins
Separation of oligomers by high-performance micro gel permeation chromatography 257(1983)327

Phenolic acids
Analysis of plant phenolics by HPLC 259(1983)131

Analysis of phenolic acids and aldehydes by HPLC: a comparative analysis of high mountain soils and their vegetation (in French) 259(1983)319

Hawkinsinuria - identification of quinolacetic acid and pyroglutamic acid during an acidotic phase 275(1983)237

Phenolic aldehydes
Analysis of phenolic acids and aldehydes by HPLC: a comparative analysis of high mountain soils and their vegetation (in French) 259(1983)319

Phenolic compounds
GC and GC-MS studies of acetate esters of chlorinated phenols 256(1983)135

Separation of phenolics (benzoic acids, cinnamic acids, phenylacetic acids, quinic acid esters, benzaldehydes and acetophenones, miscellaneous phenolics) and coumarins by reversed-phase HPLC 258(1983)111

Analysis of plant phenolics by HPLC 259(1983)131

Reversed-phase HPLC separation of human phenolic metabolites of propoxur (Baygon), carbofuran and carbaryl 259(1983)186

Characterization of phenolic compounds by open-tubular LC 261(1983)245

High-performance liquid chromatography of isoflavones and phytoalexins from *Cicer arietinum* 270(1983)392

Phenolic glycosides
Enzymatic post-column cleavage and electrochemical detection of glycosides separated by HPLC 265(1983)183

Phenols
Solvent composition effects with a cyano and a silica gel stationary phase in normal-phase LC of alkylphenols and naphthols 252(1982)21

Applicability of GLC in determining liquid-liquid partition data 252(1982)77

Separation of phenols, phenolic aldehydes, ketones and acids by HPLC 252(1982)167

Qualitative ion-pair reversed-phase TLC 252(1982)193

Substituent interaction effects in aromatic molecules in reversed-phase LC 253(1982)23

LC of phenols on an 8-quinolinol silica gel-iron(III) stationary phase 256(1983)39

Determination of phenols in water samples as 4-aminoantipyrine derivatives by HPLC 257(1983)69

GC separation of acetylated chlorinated phenols, guaiacols and catechols on an SE-30 quartz capillary column 257(1983)127

Minimization of extra-column effects with microbore columns using electrochemical detection 258(1983)57

Use of electrochemical detection in normal-phase HPLC 261(1983)43

HPLC determination of phenols as phenolates in a complex mixture 262(1983)434

Effect of support characteristics on the determination of the lipophilicity of some neutral, acidic and alkaline compounds by reversed-phase TLC 270(1983)97

Analysis of organics in the environment by functional group using a triple quadrupole mass spectrometer 271(1983)93

Phenothiazines
TLC identification of phenothiazine derivative drugs 260(1983)463

Phenoxyacetic acid
Determination of *p*-hydroxypenicillin V, *p*-hydroxyphenoxyacetic acid, phenoxyacetic acid, and penicillin V in production fermentation broth 268(1983)120

Phenoxy acids
Simultaneous determination of active ingredient and chlorophenol impurities in phenoxy acid herbicide formulations by HPLC with UV and electrochemical detection 258(1983)302

Phenoxycarbonic acid
Quantitative structure-activity relationships for herbicides. Reversed-phase liquid chromatographic retention parameter, log k_w, *versus* liquid-liquid partition coefficient as a model of the hydrophobicity of phenylureas, *s*-triazines and phenoxycarbonic acid derivatives 261(1983)329

Phenylacetic acids
Separation of phenolics (benzoic acids, cinnamic acids, phenylacetic acids, quinic acid esters, benzaldehydes and acetophenones, miscellaneous phenolics) and coumarins by reversed-phase HPLC 258(1983)111

Phenylalanine
Off-line combination of LC and field desorption MS: principles and environmental, medical and pharmaceutical applications 251(1982)105

Phenylalanine derivatives
Separation of some tyrosine, tryptophan and phenylalanine derivatives by TLC 267(1983)443

Phenylbutazone
Sample preparation by salts precipitation and quantitation by HPLC with UV detection of selected drugs in biological fluids 257(1983)345

Phenylcarbamoylmethyliminodiacetic acids
Structure-distribution relationships of radiopharmaceuticals. Correlation between the reversed-phase capacity factors for Tc-99m phenylcarbamoylmethyliminodiacetic acids and their renal elimination 255(1983)91

Phenylcarboxylic acids
Chemical changes of organic compounds in chlorinated water. VI. GC and MS studies of the reactions of phenylphenols with hypochlorite in dilute aqueous solution 265(1983)201

Phenylephrine hydrochloride
Simultaneous determination of phenylephrine hydrochloride, chlorpheniramine maleate and

sodium benzoate by reversed-phase, paired-ion and competing-base HPLC 262(1983)404

Phenyl-G3000SW
High-performance hydrophobic interaction chromatography of proteins 266(1983)49

Phenylphenols
Chemical changes of organic compounds in chlorinated water. VI. GC and MS studies of the reactions of phenylphenols with hypochlorite in dilute aqueous solution 265(1983)201

Phenylpropane polymers
High-performance size exclusion chromatography of low-molecular-weight lignins and model compounds 267(1983)249

Phenylpropanolamine
Resolution of norephedrine as its 2-oxazolidone derivative: enantiomeric separation on a chiral HPLC stationary phase and preparative regeneration of the resolved isomers 268(1983)107

Phenylpropanolamine hydrochloride
Assay of mixtures of phenylpropanolamine hydrochloride and caffeine in appetite suppressant formulations by HPLC 261(1983)111

Phenylureas
Quantitative structure-activity relationships for herbicides. Reversed-phase liquid chromatographic retention parameter, log k_w, *versus* liquid-liquid partition coefficient as a model of the hydrophobicity of phenylureas, *s*-triazines and phenoxycarbonic acid derivatives 261(1983)329

Determination of phenylureas by on-line LC-MS 271(1983)51

Phenytoin
HPLC determination of phenytoin and hydroxyphenytoin in human urine 275(1983)97

Improved LC analysis of phenytoin and salicylate using radial compression separation 275(1983)450

Phorate
Rapid method for the detection of oxygen analogues of fenthion, disulphoton and phorate on thin-layer plates 268(1983)352

Phosphate
Separation and analysis of sulfate, phosphate and other oxyanions as their *tert.*-butyldimethylsilyl derivatives by GLC and MS 257(1983)37

Enzymatic determination of phosphate in conjunction with HPLC 262(1983)265

Phosphate buffers
p*K* Values of phosphate buffer components in methanol-water reversed-phase eluents 257(1983)384

Phosphatidylcholine
In situ quantitation of lipids by TLC using reflectance densitometry 254(1983)247

Phosphatidylinositol
Simple and rapid purification of acidic lipids from rat brains 260(1983)513

Phosphatidylserine
Simple and rapid purification of acidic lipids from rat brains 260(1983)513

Phosphoglycerate kinase
Purification of human erythrocyte phosphoglycerate kinase by dye ligand affinity chromatography 258(1983)213

Phospholipase A_2
Rapid technique for the radiometric assay of phospholipase A_2 259(1983)338

Phospholipase D
Micro-chromatographic test of transphosphatidylic activity of phospholipase D in algae and other plants 261(1983)324

Phospholipids
In situ quantitation of lipids by TLC using reflectance densitometry 254(1983)247

TLC separation of phosphonolipids from their phospholipid analogues 256(1983)378

Silicic acid CC of phosphonolipds. I. Separation of phosphonosphingomyelin from cardiolipin and other phospholipids 259(1983)356

Silicic acid CC of phosphonolipids. II. Separation of 1-O-alkyl-2-acetyl-*sn*-glyceryl-3-phosphono choline from 1-O-alkyl-2-acetyl-*sn*-glyceryl-3-phosphoryl choline, cardiolipin and other related phospholipids 259(1983)504

Silicic acid column chromatography of phosphonolipids. IV. Separation of phosphonolecithin and phosphonocephalin from their phosphoryl analogues and other related phospholipids 268(1983)296

HPLC of hydroperoxy derivatives of stearoyllinoleoylphosphatidylcholine and of their enzymatic reduction products 270(1983)301

Silicic acid CC of phosphonolipids. V. Separation of phosphono-amide AGEPC, phosphono-amide AGEPE, monoether biphosphono-, diether phosphono-glycerides and diacetyl phosphono-glycerides from their phosphoryl analogues and other related lipids and phospholipids 270(1983)344

Improved HPLC method for isolation of platelet-activating factor from other phospholipids 273(1983)415

Phospholipid analysis and fatty acid content in platelets by the combination of HPLC and glass capillary GLC 275(1983)400

Phosphonocephalin
Silicic acid column chromatography of phosphonolipids. IV. Separation of phosphonolecithin and phosphonocephalin from their phosphoryl analogues and other related phospholipids 268(1983)296

Phosphonolecithin
Silicic acid column chromatography of phosphonolipids. IV. Separation of phosphonolecithin and phosphonocephalin from their phosphoryl analogues and other related phospholipids 268(1983)296

Phosphonolipids
TLC separation of phosphonolipids from their phospholipid analogues 256(1983)378

Silicic acid CC of phosphonolipids. II. Separation of 1-O-alkyl-2-acetyl-*sn*-glyceryl-3-phosphono choline from 1-O-alkyl-2-acetyl-*sn*-glyceryl-3-phosphoryl choline, cardiolipin and other related phospholipids 259(1983)504

Silicic acid column chromatography of phosphonolipids. III. Separation of 1-O-alkyl-2-acetyl-*sn*-glyceryl-3-phosphonocholine from *trans*-D-*erythro*-ceramide-N,N,N-trimethylaminoethyl phosphonate 261(1983)181

Silicic acid column chromatography of phosphonolipids. IV. Separation of phosphonolecithin and phosphonocephalin from their phosphoryl analogues and other related phospholipids 268(1983)296

Isolation of goat spleen phosphonolipids by TLC: their identification and silicic acid CC separation 268(1983)485

Silicic acid CC of phosphonolipids. V. Separation of phosphono-amide AGEPC, phosphono-amide AGEPE, monoether biphosphono-, diether phosphono-glycerides and diacetyl phosphono-glycerides from their phosphoryl analogues and other related lipids and phospholipids 270(1983)344

Phosphonosphingomyelin
Silicic acid CC of phosphonolipds. I. Separation of phosphonosphingomyelin from cardiolipin and other phospholipids 259(1983)356

Silicic acid column chromatography of phosphonolipids. III. Separation of 1-O-alkyl-2-acetyl-*sn*-glyceryl-3-phosphonocholine from *trans*-D-*erythro*-ceramide-N,N,N-trimethylaminoethyl phosphonate 261(1983)181

Phosphopeptides
Selective modification and purification of phosphopeptides for automated sequence analysis 253(1982)243

Phosphorylase
LC analysis of α-D-glucose-1-phosphate. Determination of the activity of phosphorylase 268(1983)131

Phosphoserine
Dansylation and HPLC separation of phosphoserine, phosphothreonine and phosphotyrosine from ^{32}P-labeled protein hydrolyzates 253(1982)276

Phosphothreonine
Dansylation and HPLC separation of phosphoserine, phosphothreonine and phosphotyrosine from ^{32}P-labeled protein hydrolyzates 253(1982)276

Phosphotyrosine
Dansylation and HPLC separation of phosphoserine, phosphothreonine and phosphotyrosine from ^{32}P-labeled protein hydrolyzates 253(1982)276

Photoconductivity detector
Preliminary evaluation of HPLC with photoconductivity detection for the determination of selected pesticides as potential food contaminants 259(1983)227

Photoionization detector
Design of a combined photoionization detector and photoionization-based electron-capture detector 259(1983)205

Trace analysis for organic nitro compounds by GC-electron-capture/photoionization detection methods 260(1983)347

Photostabilizers
Chromatographic determination of some hindered amine light stabilizers in polyolefins 260(1983)507

Photosynthetic reaction centre
Chromatofocusing as a simple method of purification of two bacterial photosynthetic proteins: cytochrome c_2 and reaction centre of *Rhodopseudomonas viridis* 259(1983)341

Phthalates
TLC on chemically bonded phases: a comparison of pre-coated plates 258(1983)43

Separation of alditol acetates from plasticizers and other contaminants by capillary GC 262(1983)249

Analysis of organics in the environment by functional group using a triple quadrupole mass spectrometer 271(1983)93

Phthalimides
HPLC behaviour of N-substituted phthalimides. Calculation of capacity factors for members of the homologous series 257(1983)247

Physostigmine
Analysis of plasma physostigmine concentrations by LC 272(1983)216

Phytoalexins
HPLC of isofalvonoid phytoalexins in French Bean (*Phaseolus vulgaris*) 267(1983)439

High-performance liquid chromatography of isoflavones and phytoalexins from *Cicer arietinum* 270(1983)392

Phytoecdysones
Efficient isolation of phytoecdysones from *Ajuga* plants by HPLC and droplet counter-current chromatography 257(1983)157

Picric acid
Extremely low electrophoretic mobility of picric acid in acetyl cellulose paper 252(1982)301

Picrylsulphonic acid
Spray reagents for the detection of steroids and triterpenoids on thin-layer plates 258(1983)258

Pilocarpine
Reversed-phase HPLC separation for pilocarpine and isopilocarpine using radial compression columns 264(1983)264

Pimozide
A sensitive assay method for pimozide in human plasma by HPLC with fluorescence detection 275(1983)443

Pipemidic acid
Determination by HPLC of pipemidic acid in human serum and urine 274(1983)421

Piperacillin
Formation of penicillin polymers and determination of molecular weight 258(1983)262

Piperidine
Temperature-programmed desorption of organic bases on NaY zeolite under chromatographic conditions 259(1983)283

Piperine
Determination of piperine in pepper (*Piper nigrum*) using HPLC 264(1983)316

Pituitary peptides
Isolation of pituitary peptides by reversed-phase HPLC. Expansion of the resolving power of reversed-phase columns by manipulating pH and the nature of the ion-pairing reagent 266(1983)501

Pituitary proteins
HPLC of amino acids, peptides and proteins. XLVII. Analytical and semi-preparative separation of several pituitary proteins by high-performance ion-exchange chromatography 266(1983)273

Plant extracts
Applications of three-dimensional UV absorbance-HPLC patterns for the analysis of plant extracts 268(1983)522

Plant hormones
Reversed-phase C_{18} HPLC of acidic and conjugated gibberellins 256(1983)101

Choice of methods for the determination of abscisic acid in plant tissue 256(1983)439

Simultaneous analysis of indole-3-acetic acid and detection of 4-chloroindole-3-acetic acid and 5-hydroxyindole-3-acetic acid in plant tissues by HPLC of their 2-methylindolo-α-pyrone derivatives 258(1983)155

Reversed-phase HPLC of plant hormones: some useful differences in stationary phase selectivity 270(1983)309

Plant pigments
Improved solvent system for plant pigment separation on silica gel thin layers 262(1983)331

Plasma proteins
High-performance ion-exchange chromatography of plasma proteins 266(1983)39

Plasticizers
Separation of alditol acetates from plasticizers and other contaminants by capillary GC 262(1983)249

Platelet-activating factor
Improved HPLC method for isolation of platelet-activating factor from other phospholipids 273(1983)415

Platinum complexes
Platinum complexes in reversed- and normal-phase chromatography. Analytical- and preparative-scale separations of enantiomeric olefins 255(1983)311

Evaluation of reductive amperometric detection in the LC determination of antineoplastic platinum complexes 273(1983)301

PL-385
Formation of penicillin polymers and determination of molecular weight 258(1983)262

Polarity
Classification of the "polarity" of porous polymer bead columns for GC at high temperature by analysis of standard polarity probes 254(1983)69

Classification of the "polarity" of porous polymer bead stationary phases by comparison with squalane and Apolane standard liquid phases 269(1983)153

Polarographic detector
Effect of various measuring techniques on the response of a polarographic HPLC detector 262(1983)85

Pollutants
Modification of the determination of organic compounds by headspace GC after sorption on solid sorbents and liquid desorption 262(1983)199

Polyacrylamide gels
Adsorption chromatography on Bio-Gel P-2 267(1983)403

Polyacrylonitrile
Interaction between low-molecular-weight compounds and nitrile-based polymers 267(1983)101

Polyadenylated mRNA
Purification of poly(A)-messenger ribonucleic acid by reversed-phase HPLC 266(1983)351

Polyamines
Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

HPLC determination of putrescine, spermidine and spermine after derivatisation with 4-fluoro-3-nitrobenzotrifluoride 258(1983)289

Detection of spermine and thermospermine by TLC 262(1983)451

Determination of polyamines in hydrolysates of uremic plasma by high-performance cation-exchange column chromatography 272(1983)279

Analysis of polyamines and acetyl derivatives by a single automated amino acid analyzer technique 273(1983)263

Polyaromatic compounds
Determination of some polyaromatic compounds by reversed-phase LC with electrochemical detection 261(1983)415

Poly(aspartic acid)-silica
Cation-exchange HPLC of proteins on poly(aspartic acid)-silica 266(1983)23

HPLC of human hemoglobins on a new cation exchanger 266(1983)197

Polybasic acids
High-performance ion chromatography of anions 259(1983)459

Polychlorinated biphenyls
see PCBs

Polychlorinated dibenzo-*p*-dioxins
GC-MS analysis of polychlorinated dibenzo-*p*-dioxins and organic compounds in high-temperature fly ash from municipal waste incineration 265(1983)79

GC-MS study on the formation of polychlorinated dibenzo-*p*-dioxins and polychlorobenzenes from polyvinyl chloride in a municipal incinerator 270(1983)227

Quantitative aspects in the determination of polychlorinated dibenzo-*p*-dioxins by high-resolution GC-MS 270(1983)235

Polychlorinated dibenzofurans
GC-MS analysis of polychlorinated dibenzo-*p*-dioxins and organic compounds in high-temperature fly ash from municipal waste incineration 265(1983)79

Polychlorobenzenes
GC-MS study on the formation of polychlorinated dibenzo-*p*-dioxins and polychlorobenzenes from polyvinyl chloride in a municipal incinerator 270(1983)227

Polychloronaphthalenes
Phosphorescence detection of polychloronaphthalenes and polychlorobiphenyls in LC 255(1983)581

Polycyclic aromatic hydrocarbons
see Polynuclear aromatic hydrocarbons

Polyethylene
GC determination of the products of degradation of polyethylene over a silica-alumina catalyst 259(1983)69

Polyethylene glycol
Photometric detection at 185 nm for HPLC with either isocratic or gradient elution. Assay of mixtures of polyethylene glycol oligomers 255(1983)463

Effects of salts on the size exclusion behavior of poly(ethylene glycol) 257(1983)237

Surface affinity chromatographic separation of blood cells. III. Effect of molecular weight of polyethylene glycol bonded stationary phases on elution behaviour of human blood cells 268(1983)375

Immobilization of polyethylene glycol in capillary columns for GC 268(1983)387

Thermal decomposition of polyethylene glycol 20M and essential oils in GLC and the effect of traces of oxygen 269(1983)171

Estimation of polyethyleneglycols in human urine for studies of intestinal absorption 273(1983)421

Poly(ethylene oxide)
Comparison of poly(ethylene oxide), pullulan and dextran as polymer standards in aqueous gel chromatography 256(1983)61

Polyethylenimine
High-performance anion-exchange chromatography of oligonucleotides 255(1983)137

Polyhydroxylated solvents
Solution and adsorption thermodynamics in propylene glycol by GC. A comparative study with other polyhydroxylated solvents 259(1983)413

Polymers
Characterization of organometallic copolymers and copolymerization by size-exclusion chromatography coupled with trace metal- and mass-sensitive detectors 255(1983)439

Comparison of poly(ethylene oxide), pullulan and dextran as polymer standards in aqueous gel chromatography 256(1983)61

Investigation of the surface structure of polymers by chromatographic methods. V. Use of GPC in the study of the porous structure of

copolymers of glycidyl methacrylate 259(1983)269

Size exclusion chromatography of polymer molecules on microparticulate silica gels: a comparative study 260(1983)41

Interaction between low-molecular-weight compounds and nitrile-based polymers 267(1983)101

Polymetallophenylsiloxanes
GC study of chemically bonded polymetallophenylsiloxanes 257(1983)13

Polymethoxylated flavones
Substituent effect of polymethoxylated flavones in HPLC 259(1983)150

N,N'-Polymethylene-bis-phthalimides
Analysis of N-alkylphthalimides and N,N'-polymethylene-bis-phthalimides in industrial dye carrier formulations by GC-MS 264(1983)297

Polymyxine
Effect of water-soluble β-cyclodextrin polymer on the lipophilicity of polymyxine examined by reversed-phase TLC 259(1983)107

Polynuclear aromatic hydrocarbons
Linear retention index system for polycyclic aromatic compounds. Critical evaluation and additional indices 252(1982)1

HPLC using flexible fused-silica micro-packed columns 255(1983)349

TLC separation and spectra of oxygenated benzo[*a*]pyrene derivatives in dichloromethane 264(1983)453

Glass capillary GC of polynuclear aromatic hydrocarbons in aircraft turbine particulate emissions using stationary phases of varying polarity 267(1983)167

"Charge transfer" TLC of nucleic acid bases and polycyclic aromatic hydrocarbons 269(1983)103

Analysis of organics in the environment by functional group using a triple quadrupole mass spectrometer 271(1983)93

Polynucleotides
HPLC in combination with field desorption MS: separation and identification of building blocks for polynucleotide synthesis 253(1982)65

Polyols
Comparative separation of low-molecular-weight carbohydrates and polyols by HPLC: radially compressed amine modified silica *versus* ion exchange 261(1983)65

Enantiomer separation of polyols and amines by enantioselective GC 269(1983)19

Polyoxathiaferrocenophanes
TLC of hetera[n](1,1')ferroceno- and ruthenocenophanes 268(1983)144

Polyoxathiaruthenocenophanes
TLC of hetera[n](1,1')ferroceno- and ruthenocenophanes 268(1983)144

Polypeptide hormones
HPLC preparation of single-site carrier-free pancreatic polypeptide hormone radiotracers 266(1983)239

Optimization of a melanotropin-receptor binding assay by reversed-phase HPLC 266(1983)567

Polypeptides
HPLC of amino acids, peptides and proteins. XL. Further studies on the role of the organic modifier in the reversed-phase HPLC of polypeptides. Implications for gradient optimisation 255(1983)125

Polyperfluoroalkyl ethers
Preparation of efficient packed columns with a polyperfluoroalkyl ether stationary phase 267(1983)388

Polyphosphates
Determination of average chain length of linear polyphosphates by isotachophoresis 260(1983)377

Polysaccharides
Detection of neutral and aminosugars from glycoproteins and polysaccharides as their alditol acetates 256(1983)419

Polystyrene
Separation of styrene oligomers using normal nitrile-bonded phase LC with UV and fluorescence detection 252(1982)325

Isolation by preparative chromatography and characterization of styrene oligomers from 1 to 18 and their application in pore size distribution determination 254(1983)289

Separation of macromolecules by reversed-phase HPLC. Pore-size and surface-area effects for polystyrene samples of varying molecular weight 255(1983)163

Stepwise pyrolysis-LC and pyrolysis-GC of polystyrene 255(1983)511

Adsorption of *n*-butane and 1,3-butadiene on cross-linked polystyrene 256(1983)213

Polystyrene oligomers
Solvent selectivity in reversed-phase HPLC separation of isomers of polystyrene oligomers 264(1983)339

Poly(vinyl alcohol)
Effect of electroosmosis on detection in isotachophoresis 260(1983)241

Poly(vinyl alcohol)-Sepharose
Poly(ethylene glycol)- and poly(vinyl alcohol)-substituted carbohydrate gels for "mild" hydrophobic chromatography 254(1983)83

Polyvinyl chloride
GC-MS study on the formation of polychlorinated dibenzo-*p*-dioxins and polychlorobenzenes from polyvinyl chloride in a municipal incinerator 270(1983)227

Porapak
Classification of the "polarity" of porous polymer bead columns for GC at high temperature by analysis of standard polarity probes 254(1983)69

Classification of the "polarity" of porous polymer bead stationary phases by comparison with squalane and Apolane standard liquid phases 269(1983)153

Pore size distribution
Isolation by preparative chromatography and characterization of styrene oligomers from 1 to 18 and their application in pore size distribution determination 254(1983)289

Pore-size effects
Separation of macromolecules by reversed-phase HPLC. Pore-size and surface-area effects for polystyrene samples of varying molecular weight 255(1983)163

Porous polymers
Classification of the "polarity" of porous polymer bead columns for GC at high temperature by analysis of standard polarity probes 254(1983)69

Improved analysis of sulphur gases on porous polymers 258(1983)228

Influence of thermal pre-treatment on adsorption properties of porous polymer air samplers 267(1983)91

Classification of the "polarity" of porous polymer bead stationary phases by comparison with squalane and Apolane standard liquid phases 269(1983)153

Porphyrins
GPC of porphyrins and hemins 258(1983)310

Determination of porphyrins in urine by direct injection on a LC column coated with tributylphosphate 275(1983)51

Post-column reactors
Post-column air-segmentation reactor for the fluorometric detection of reserpine by LC 252(1982)288

Off-line LC-MS studies of *o*-phthalaldehyde-primary amine derivatives 261(1983)407

Post-column air-segmentation photochemical reactor for the fluorometric detection of reserpine by LC 264(1983)144

Rapid separation and measurement of rat urinary kallikrein by HPLC with a continuous flow enzyme detector 264(1983)249

Fluorometric determination of secondary amines by HPLC with post-column derivatization 264(1983)423

Enzymatic post-column cleavage and electrochemical detection of glycosides separated by HPLC 265(1983)183

Sensitive and specific post-column fluorimetric determination of diethylstilboestrol residues in extracts of urine and animal tissues at the 1-ppb level 265(1983)239

Dual-detector methods for selective identification of prolyl residues and amide-blocked N-terminal groups in chromatographically separated peptides 266(1983)427

Comparison of ninhydrin and *o*-phthalaldehyde post-column detection techniques for HPLC chromatography of free amino acids 266(1983)461

Post-column derivatization of vitamin B_6 using 2,6-dibromoquinone-4-chlorimide 267(1983)414

Postcolumn derivatization of catecholamines with 2-cyanoacetamide for fluorimetric monitoring in HPLC 274(1983)45

Potassium carbonate
Characterization of modified alumina as an adsorbent for GSC. Salt loading dependence of retention volume on modified alumina adsorbent coated with potassium carbonate 253(1982)205

Potentiometric detector
Ion chromatography with potentiometric detection 252(1982)113

Pralidoxime mesylate
Determination of 2-hydroxyiminomethyl-1-methylpyridinium methanesulphonate (pralidoxime mesylate, P2S) and its degradation products in solution by LC 265(1983)311

Pramiracetam
GC assay of pramiracetam in human plasma using nitrogen specific detection 274(1983)346

Praziquantel
Quantitative determination of praziquantel in serum by HPLC 275(1983)127

Preparative chromatography
Design procedure for preparative and production GC 256(1983)381

All-glass system for preparative glass capillary GC 262(1983)95

Preparative high-performance liquid affinity chromatography 266(1983)151

Prilocaine
Direct LC resolution of racemic drugs using α_1-acid glycoprotein as the chiral stationary phase 269(1983)71

Priority pollutants
Determination of the solubility limits of organic priority pollutants by GC headspace analysis 260(1983)23

Proanthocyanidins
Separation of some anthocyanidins, anthocyanins, proanthocyanidins and related substances by reversed-phase HPLC 259(1983)291

Procymidone
Reversed-phase HPLC of pesticides. VII. Analysis of Vinclozolin, Iprodione, Procymidone, Dichlozolinate and their degradation product 3,5-dichloroaniline on white must and wine extracts 256(1983)176

Production chromatography
Design procedure for preparative and production GC 256(1983)381

Progesterone
Simultaneous measurement of four testicular Δ^4-3-ketosteroids by isocratic HPLC with on-line UV absorbance detection 257(1983)81

Proinsulin
Purification of porcine proinsulin by HPLC 256(1983)283

HPLC preparation of single-site carrier-free pancreatic polypeptide hormone radiotracers 266(1983)239

Prolactin
HPLC of amino acids, peptides and proteins. XLVII. Analytical and semi-preparative separation of several pituitary proteins by high-performance ion-exchange chromatography 266(1983)273

Proline
Dual-detector methods for selective identification of prolyl residues and amide-blocked N-terminal groups in chromatographically separated peptides 266(1983)427

3-(L-Prolyl)propylsilica
High-performance ligand-exchange chromatography of α-amino acid enantiomers. Studies on monomerically bonded 3-(L-prolyl)- and 3-(L-hydroxyprolyl)propyl silicas 255(1983)51

Promethazine
Direct LC resolution of racemic drugs using α_1-acid glycoprotein as the chiral stationary phase 269(1983)71

Pro-opiomelanocortin
Enzymatic maturation of pro-opiomelanocortin by anterior pituitary granules. Methodological approach leading to definite characterization of cleavage sites by means of HPLC and microsequencing 266(1983)213

Propafenone
HPLC procedure for the quantitation of propafenone in serum and tissues 272(1983)428

Propanoates
GLC analyses. XVII. Separation of a mixture of primary C_1-C_{18} straight-chain alcohols and their propanoyl, 2-chloropropanoyl and 3-chloropropanoyl derivatives on SE-30 and OV-351 capillary columns with temperature programming 268(1983)229

GLC analyses. XX. Unsaturated alcohols and the corresponding esters of propanoic and butanoic acids and their monochlorinated derivatives 270(1983)181

Propenoic acids
GLC analyses. XV. GC separation of methyl esters of chlorinated propenoic acids on SE-30 and OV-351 quartz capillary columns 257(1983)122

Propiomazine
Direct LC resolution of racemic drugs using α_1-acid glycoprotein as the chiral stationary phase 269(1983)71

Propoxur
Reversed-phase HPLC separation of human phenolic metabolites of propoxur (Baygon), carbofuran and carbaryl 259(1983)186

Propranolol
Determination of propranolol in peritoneal dialysis fluid by HPLC without extraction 274(1983)171

Propylene glycol
Solution and adsorption thermodynamics in propylene glycol by GC. A comparative study with other polyhydroxylated solvents 259(1983)413

Propylene oxide polyethers
Determination of volatile microimpurities in alkaline polymerizates and neutral propylene oxide polyethers by GC headspace analysis 264(1983)272

Propylenthiourea
GLC method for determining propylenthiourea in rat tissues and fluids 267(1983)427

N-*n*-Propylnorapomorphine
Analysis of N-*n*-propylnorapomorphine in plasma and tissue by capillary GC-electron-capture detection 274(1983)149

Determination of apomorphine and N-*n*-propylnorapomorphine in plasma using HPLC and fluorescence detection 274(1983)376

Propyl palmitate
In situ quantitation of lipids by TLC using reflectance densitometry 254(1983)247

Propylthiouracil
Simple and sensitive method for the determination of propylthiouracil in blood by HPLC 272(1983)376

Prostaglandins
9-Anthryldiazomethane derivatives of prostaglandins for HPLC 253(1982)271

Prostaglandins and thromboxane: *tert.*-butyldimethylsilyl ethers as derivatives for their analyses by GC-MS-selected ion monitoring 254(1983)91

Determination of prostaglandin $F_{2\alpha}$ and 6-oxo-prostaglandin $F_{1\alpha}$ in urine by GC-positive chemical ionisation-MS using stable isotope dilutions with selected ion monitoring 273(1983)161

Separation and quantitative determination of radiolabeled prostaglandins, thromboxanes, 6-keto-prostaglandin $F_{1\alpha}$ and other arachidonic acid metabolites produced in biological material 275(1983)61

Cross-channel contamination of prostaglandins during separation by thin-layer chromatography 275(1983)229

α_1-Proteinase inhibitor
Proteinase inhibitory assays of serum using high-performance size exclusion chromatography 275(1983)283

Protein association
Microbore column exclusion chromatographic method for studying protein association and its relation with enzymatic activity 273(1983)95

Proteins
see also Enzymes

Reversed-phase HPLC of virus proteins and other large hydrophobic proteins in formic acid containing solvents 252(1982)241

High-performance GPC of bovine eye lens proteins in combination with low-angle laser light scattering. Superior resolution of the oligomeric β-crystallins 252(1982)255

Evaluation of conventional and medium-performance anion exchangers for the separation of proteins 253(1982)219

Poly(ethylene glycol)- and poly(vinyl alcohol)-substituted carbohydrate gels for "mild" hydrophobic chromatography 254(1983)83

Gel filtration in sodium dodecyl sulphate of hydrophobic muscle proteins on Sephacryl S-400 Superfine 254(1983)203

Raman spectroscopic detection of haemoproteins in the eluate from HPLC 254(1983)285

Heterogeneity of human pituitary neurophysins by ampholyte displacement chromatography 254(1983)309

Effects of chain length and carbon load on the performance of alkyl-bonded silicas for protein separations 255(1983)115

Separation of cereal proteins by reversed-phase HPLC 255(1983)219

Physico-chemical factors governing partition behaviour of solutes and particles in aqueous polymeric biphasic systems. III. Features of solutes and biological particles detected by the partition technique 256(1983)49

Operational variables in medium-performance ion-exchange chromatography of proteins on DEAE-Toyopearl 650 256(1983)143

Improved recovery of ovalbumin by reversed-phase HPLC 256(1983)172

Purification of porcine proinsulin by HPLC 256(1983)283

Comparison of carboxymethyl-cellulose cation-exchange chromatography and HPLC in the purification of guinea-pig insulin from pancreatic extracts 256(1983)293

Separation by different methods of soluble proteins isolated from sympathetic splenic nerves 259(1983)87

Mouse interferon: rapid purification by adsorption on controlled pore glass and HPLC 259(1983)169

Chromatofocusing as a simple method of purification of two bacterial photosynthetic proteins: cytochrome c_2 and reaction centre of *Rhodopseudomonas viridis* 259(1983)341

Separation of myosin light chains by high-speed gel filtration on TSK-GEL SW columns 260(1983)210

Characteristics of protein-aqueous medium interactions measured by partition in aqueous Ficoll-Dextran biphasic system 260(1983)329

Artificial peaks in GPC due to combining column supports with different pore sizes 261(1983)381

Comparison of chromatofocusing and isoelectric focusing in recovery of specific activity from biological fluids 262(1983)334

Peptide mapping of myosin light chains by HPLC 264(1983)164

Comparison of reversed-phase and weak anion-exchange HPLC methods for peptide separations 264(1983)223

Quantitative analysis of two-dimensional electropherograms with a television camera-microcomputer system 264(1983)435

Triazine dye binding of human α-fetoprotein and albumin 265(1983)27

Retention model for high-performance ion-exchange chromatography 266(1983)3

Cation-exchange HPLC of proteins on poly(aspartic acid)-silica 266(1983)23

High-performance ion-exchange chromatography of plasma proteins 266(1983)39

High-performance hydrophobic interaction chromatography of proteins 266(1983)49

Gradient optimization principles in reversed-phase HPLC and the separation of influenza virus components 266(1983)55

Determination of polymer and purification of albumin by HPLC 266(1983)105

HPLC of staphylococcal enterotoxin B 266(1983)179

Urinary protein isolation by high-performance ion-exchange chromatography 266(1983)187

HPLC of human hemoglobins on a new cation exchanger 266(1983)197

Cation-exchange, HPLC determination of hemoglobin A_{1c} 266(1983)207

Reversed-phase HPLC of *Escherichia coli* ribosomal proteins. Characteristics of the separation of a complex protein mixture 266(1983)225

Rapid purification of leukocyte interferons by HPLC 266(1983)249

HPLC of amino acids, peptides and proteins. XLVII. Analytical and semi-preparative separation of several pituitary proteins by high-performance ion-exchange chromatography 266(1983)273

Separation of transferrin types in human plasma by anion-exchange HPLC 266(1983)281

New ion exchanger for the separation of proteins and nucleic acids 266(1983)385

Use of electrophoretic titration curves for predicting optimal chromatographic conditions for fast ion-exchange chromatography of proteins 266(1983)409

Two-dimensional peptide mapping by reversed-phase column chromatography, applied to the sequence determination of cytochrome *c* from the wild type and a mutant of the butterfly, *Pieris brassicae* 266(1983)491

Fast chromatofocusing of human serum proteins with special reference to α_1-antitrypsin and Gc-globulin 266(1983)523

Isolation of thymosin α_1 from thymosin fraction 5 of different species by HPLC 266(1983)533

Gel HPLC studies on the elution behavior of chemically deglycosylated human chorionic gonadotropin and its subunits 266(1983)555

Purification of detergent-extracted Sendai virus proteins by reversed-phase HPLC 266(1983)577

Reversed-phase HPLC purification of subunits of oligomeric membrane proteins. The nuclear coded subunits of yeast cytochrome *c* oxidase 266(1983)585

HPLC of chromatin histones 266(1983)609

Isolation of Sendai virus F protein by anion-exchange HPLC in the presence of Triton X-100 266(1983)629

Purification of trypsin and other basic proteins by high-performance cation-exchange chromatography 266(1983)633

Bovine viral diarrhea virus: purification of surface proteins in detergent-containing buffers by fast protein LC 266(1983)643

Analysis of structural cell proteins by isoelectric focusing in zwitterionic agarose gel thin layers 268(1983)79

Specific radiolabelling of keratin proteins by amidination 268(1983)306

Use of fluorinated bonded phases in reversed-phase HPLC of proteins 269(1983)96

High-performance electrophoresis: the electrophoretic counterpart of HPLC 270(1983)1

HPLC separation of Dns-amino acid derivatives and applications to peptide and protein structural studies 270(1983)253

Fractionation of high-molecular-weight proteins with mixed Toyopearl packings 270(1983)383

Separation of urine proteins on the anion-exchange resin Mono Q™ 273(1983)107

Isotachophoresis electrodesorption of proteins from an affinity adsorbent on a microscale 273(1983)117

Studies on multiple molecular forms of transferrin 274(1983)337

Purification of salt-soluble cross-linked elastin by hydrophobic interaction chromatography 275(1983)31

Detection of the changes in protein distribution in rat serum after partial hepatectomy using two-dimensional electrophoresis under non-denaturing conditions 275(1983)71

Proteoglycans
Continuous-flow analysis of proteoglycans during gel filtration using guanidine hydrochloride as an eluent 256(1983)341

Proteus
Head-space GLC for the rapid laboratory diagnosis of urinary tract infections caused by enterobacteria 274(1983)27

Prothrombin-converting enzyme
Isolation of the prothrombin-converting enzyme from fibrinogenolytic enzymes of *Echis carinatus* venom by chromatographic and electrophoretic methods 259(1983)473

Pseudoephedrine
Chromatographic study of the reaction of mercury(II) and silver(I) ions with nickel

dithiocarbamate complexes derived from some aromatic amine drugs 254(1983)123

Psilocin
Screening of hallucinogenic mushrooms with HPLC and multiple detection 270(1983)293

Psilocybin
Screening of hallucinogenic mushrooms with HPLC and multiple detection 270(1983)293

Pterins
Determination of biopterin and other pterins in tissues and body fluids by HPLC 274(1983)398

Pteroylglutamic acid
HPLC separation of physiological folate monoglutamate compounds. Investigation of absorption and conversion of pteroylglutamic acid in the small intestine of the rat *in situ* 267(1983)175

Pullulan
Comparison of poly(ethylene oxide), pullulan and dextran as polymer standards in aqueous gel chromatography 256(1983)61

Purine nucleotides
Preparative isolation of mono-, di- and tripurine nucleotides from hydrolyzates of depyrimidinated herring sperm DNA (in German) 265(1983)257

Purines
see also Nucleobases

Stationary phase effects on the reversed-phase LC retention behavior of purine and pyrimidine compounds 255(1983)151

Simultaneous determination of plasma and urinary uric acid, xanthine, hypoxanthine, allopurinol, oxipurinol, orotic acid, orotidine and creatinine by HPLC 274(1983)75

Putrescine
Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

HPLC determination of putrescine, spermidine and spermine after derivatisation with 4-fluoro-3-nitrobenzotrifluoride 258(1983)289

Determination of polyamines in hydrolysates of uremic plasma by high-performance cation-exchange column chromatography 272(1983)279

Analysis of polyamines and acetyl derivatives by a single automated amino acid analyzer technique 273(1983)263

Pyrethroid insecticides
Chiral-phase HPLC separation of enantiomers of pyrethroid insecticide esters derived from α-cyano-3-phenoxybenzyl alcohol 258(1983)175

Pyridine
Separation and determination of thiamine, pyrithiamine, pyridine, 2-methyl-4-amino-5-hydroxymethylpyrimidine and 4-methyl-5-(β-hydroxyethyl)thiazole by reversed-phase HPLC 258(1983)307

Temperature-programmed desorption of organic bases on NaY zeolite under chromatographic conditions 259(1983)283

GC adsorption-desorption techniques for measuring acid strength distribution on solid catalysts 268(1983)207

N-(2'-Pyridinecarbonyl)piperazine
HPLC separation of 1-benzyl-4-(2'-pyridinecarbonyl)piperazine and its potential metabolites 258(1983)271

Pyridine-2-carboxylic acid
HPLC separation of 1-benzyl-4-(2'-pyridinecarbonyl)piperazine and its potential metabolites 258(1983)271

Pyridines
Applicability of GLC in determining liquid-liquid partition data 252(1982)77

Substituent interaction effects in aromatic molecules in reversed-phase LC 253(1982)23

Pyridinium salts
Separation of organic and metal ions by high-voltage capillary electrophoresis 264(1983)385

Pyrido[1,2-α]pyrimidin-4-ones
Determination of partition coefficients of pyrido[1,2-α]pyrimidin-4-one derivatives by traditional shake, TLC and GLC methods 252(1982)67

Pyrimidines
see also Nucleobases

HPLC method for the separation of the halogenated pyrimidine 5-bromo-2'-deoxyuridine from its metabolites 252(1982)335

Stationary phase effects on the reversed-phase LC retention behavior of purine and pyrimidine compounds 255(1983)151

Improved method for determination of 5-methylcytosine by ion-pair reversed-phase HPLC 261(1983)315

HPLC of biologically important pyrimidine derivatives with UV-voltammetric-polarographic detection 273(1983)77

1-(2-Pyrimidinyl)piperazine
Identification and quantitation of 1-(2-pyrimidinyl)piperazine, an active metabolite of the anxiolytic agent buspirone, in rat plasma and brain 252(1982)310

Pyrithiamine
Separation and determination of thiamine, pyrithiamine, pyridine, 2-methyl-4-amino-5-hydroxymethylpyrimidine and 4-methyl-5-(β-hydroxyethyl)thiazole by reversed-phase HPLC 258(1983)307

Pyrocatechol
Minimization of extra-column effects with microbore columns using electrochemical detection 258(1983)57

Pyrogens
Characteristics of immobilized histamine for pyrogen adsorption 262(1983)193

Pyroglutamic acid
Hawkinsinuria - identification of quinolacetic acid and pyroglutamic acid during an acidotic phase 275(1983)237

Pyrrolizidine alkaloids
Separation and determination of macrocyclic pyrrolizidine alkaloids of the otonecine type present in the edible plant *Petasites japonicus* by reversed-phase HPLC 257(1983)146

Q

Quadrupole mass spectrometer
Experiments with the combination of a micro liquid chromatograph and a chemical ionization quadrupole mass spectrometer, using a capillary interface for direct liquid introduction. Some theoretical considerations concerning the evaporation of liquids from capillaries into vacuum 271(1983)71

Quantitative indices
Analytical isotachophoresis utilizing computer simulation. I. Factors affecting the quantitative indices and utility for determinations 260(1983)225

Quassinoids
Quantitative HPLC analysis of the bitter quassinoid compounds from *Simaruba glauca* seeds 264(1983)469

Quaternary ammonium compounds
Effect of support characteristics on the determination of the lipophilicity of some neutral, acidic and alkaline compounds by reversed-phase TLC 270(1983)97

Quebrachamine
Inclusion chromatography of enantiomers of indole alkaloids on a cyclodextrin polymer stationary phase 270(1983)127

Quenching
Hydrocarbon and water quenching of the flame photometric detector response 270(1983)145

Quercetin
Influence of organic modifiers on the isocratic reversed-phase HPLC of flavonol glycosides from brewer's hops 258(1983)103

Quinazoline alkaloids
HPLC determination of vasicine and vasicinone in *Adhatoda vasica* Nees 258(1983)183

Quinic acid esters
Separation of phenolics (benzoic acids, cinnamic acids, phenylacetic acids, quinic acid esters, benzaldehydes and acetophenones, miscellaneous phenolics) and coumarins by reversed-phase HPLC 258(1983)111

Quinine
Determination of quinine in hair preparations by reversed-phase HPLC 257(1983)166

Quinoidal imminium compounds
HPLC of quinoidal imminium compounds derived from triphenylmethanes 255(1983)101

Quinolacetic acid
Hawkinsinuria - identification of quinolacetic acid and pyroglutamic acid during an acidotic phase 275(1983)237

Quinoline
Separation of azaarenes by polyamide TLC and the relationship between their basicity and R_F values 254(1983)35

Temperature-programmed desorption of organic bases on NaY zeolite under chromatographic conditions 259(1983)283

8-Quinolinol silica gel-iron(III)
LC of phenols on an 8-quinolinol silica gel-iron(III) stationary phase 256(1983)39

Quinonoid dihydropterins
Isolation and characterization of quinonoid dihydropterins by HPLC 257(1983)361

R

R acid
Quantitative HPLC analysis of the commercial dyestuff G acid and Gama acid 260(1983)97

Radioactivity detector
Improved radioactivity detector for fused-silica capillary columns 264(1983)393

Radioiodinated compounds
Purification of ^{125}I-labelled compounds by HPLC with on-line detection 254(1983)229

Radiolabeled biological molecules
Quantitation of radiolabeled biological molecules separated by HPLC 255(1983)209

Radiometric detection cells
On-line radiometric detection in capillary isotachophoresis. I. Preliminary experiments 258(1983)238

Radiopharmaceuticals
Structure-distribution relationships of radiopharmaceuticals. Correlation between the reversed-phase capacity factors for Tc-99m phenylcarbamoylmethyliminodiacetic acids and their renal elimination 255(1983)91

Raman spectrometry
Raman spectroscopic detection of haemoproteins in the eluate from HPLC 254(1983)285

Ranitidine
Use of HPLC-MS for the study of the metabolism of ranitidine in man 251(1982)215

Raspberry ketone
GC determination of raspberry ketone and malathion in insect bait concentrates 259(1983)176

Rate constants
Calculation of the rate constant of a reversible reaction from the chromatographic peaks for muramyldipeptide anomers 260(1983)478

Rate studies
Rate and equilibrium studies of the reaction between beryllium oxyacetate and beryllium oxypropionate by GC 252(1982)131

Rat small myelin basic protein
Comparison of reversed-phase and weak anion-exchange HPLC methods for peptide separations 264(1983)223

Razoxane
Determination of razoxane by HPLC 274(1983)434

Reaction detectors
Evaluation and comparison of reaction detectors 255(1983)545

Relative retentions
Utilization of the solution-of-groups concept in GLC 258(1983)23

Reproterol
HPLC determination of reproterol in plasma using on-line trace enrichment and amperometric detection with a rotating working electrode 274(1983)239

Reserpine
Post-column air-segmentation reactor for the fluorometric detection of reserpine by LC 252(1982)288

Post-column air-segmentation photochemical reactor for the fluorometric detection of reserpine by LC 264(1983)144

Retention behaviour
HPLC of amino acids, peptides and proteins. XLVI. Selectivity effects of peptidic positional isomers and oligomers separated by reversed-phase HPLC 266(1983)75

HPLC of amino acids, peptides and proteins. XLVIII. Retention behaviour of tryptic peptides of human growth hormone isolated by reversed-phase HPLC: a comparative study using different chromatographic conditions and predicted elution behaviour based on retention coefficients 266(1983)89

Retention behaviour of bile acids in ion suppression and ion-pair chromatography on bonded phases 268(1983)1

Retention gaps
Determination of the depth of retention gaps in capillary GC 270(1983)17

Retention index system
Linear retention index system for polycyclic aromatic compounds. Critical evaluation and additional indices 252(1982)1

Twenty-fifth anniversary of the retention index system in GLC (Review) 271(1983)213

Retention indices
Characterizing petroleum- and shale-derived jet fuel distillates via temperature-programmed Kováts indices 253(1982)179

Utilization of the solution-of-groups concept in GLC 258(1983)23

GC studies of perfluorocarbon compounds. II. GC separation of mixtures of long-chain perfluoroalkanes and -alkenes (in German) 259(1983)243

Microprocessor-controlled peak retention time analyser for the determination of retention indices 267(1983)1

Retention mechanisms
Substituent interaction effects in aromatic molecules in reversed-phase LC 253(1982)23

Characterization of modified alumina as an adsorbent for GSC. Salt loading dependence of retention volume on modified alumina adsorbent coated with potassium carbonate 253(1982)205

Mobile phase effects in LSC. Importance of adsorption-site geometry, adsorbate delocalization and hydrogen bonding 255(1983)3

Retention models
Retention model for high-performance ion-exchange chromatography 266(1983)3

Retention time
Calculation of the retention time and peak width for the purpose of optimized GC analysis 260(1983)255

Retention volumes
Characterization of modified alumina as an adsorbent for GSC. Salt loading dependence of retention volume on modified alumina adsorbent coated with potassium carbonate 253(1982)205

Utilization of the solution-of-groups concept in GLC 258(1983)23

Retinoic acid
Determination of all-*trans*- and 13-*cis*-retinoic acids by two-phase, two-dimensional TLC in creams and by HPTLC in gel formulations 258(1983)314

Retinoids
HPLC separation and NMR identification of stereoisomers of 5,8-furanoidal retinal 253(1982)113

Retinol
Effect of 2-alkanols on the separation of geometric isomers of retinol in non-aqueous HPLC 260(1983)129

Retinyl fatty acyl esters
Separation and estimation of retinyl fatty acyl esters in tissues of normal rat by HPLC 272(1983)269

Reversed-phase materials
Monomeric and polymeric derivatization in reversed-phase HPLC materials 254(1983)117

Characterization of a new dehydroxylated reversed-phase material 267(1983)39

Rhamnose
Complete separation and quantification of neutral sugars from plant cell walls and mucilages by HPLC 256(1983)157

Ribonuclease
Rapid purification of a ribonuclease from bovine seminal plasma by DNA-affinity chromatography 260(1983)216

Affinity chromatography study of the interaction of ribonucleotides with bovine pancreatic ribonuclease covalently bound to Sepharose 4B 268(1983)255

Ribonucleotides
Affinity chromatography study of the interaction of ribonucleotides with bovine pancreatic ribonuclease covalently bound to Sepharose 4B 268(1983)255

Isocratic reversed-phase LC separation of 3',5'-cyclic ribonucleotides 272(1983)373

Ribosomal proteins
Reversed-phase HPLC of *Escherichia coli* ribosomal proteins. Characteristics of the separation of a complex protein mixture 266(1983)225

R_M values
Relationship between R_M values and hydrophobicity. Chromatographic behaviour of crotonolactones 254(1983)277

R_M values, retention times and octanol-water partition coefficients of a series of 5-nitroimidazoles 259(1983)329

RNA
Adsorption chromatography of ribonucleic acids on controlled-pore glass 262(1983)441

Operational variables in high-performance gel filtration of DNA fragments and RNAs 266(1983)341

Purification of low-molecular-weight RNAs by high-performance GPC 268(1983)506

mRNA
Purification of poly(A)-messenger ribonucleic acid by reversed-phase HPLC 266(1983)351

rRNA
Hydrophobic interaction of ribosomal ribonucleic acids on a nitrocellulose column 268(1983)285

tRNA
tRNA separation by HPLC using an aggregate of ODS-Hypersil and trioctylmethylammonium chloride 257(1983)305

HPLC of transfer RNAs. Separation of transfer RNAs from mammalian sources 266(1983)359

Ro 03-8799
HPLC analysis of the new hypoxic cell radiosensitiser, Ro 03-8799, in biological samples 273(1983)327

Rubber products
Analysis of Novor compounds in cross-linked natural rubber products 268(1983)515

Λ-Ru(1,10-phenanthroline)$_3^{2+}$-montmorillonite
Clay CC for optical resolution of tris(chelated) and bis(chelated) complexes on a Λ-Ru(1,10-phenanthroline$_3^{2+}$-montmorillonite column 262(1983)41

Rutosides
Quantitative determination of O-(β-hydroxyethyl)-rutosides in serum by HPLC 272(1983)333

S

Saccharides
see also Sugars and carbohydrates

Separation of mono- and disaccharides by HPLC with a strong cation-exchange resin and an acetonitrile-rich eluent 258(1983)284

Separation and determination of neutral monosaccharides using methanolysis and HPLC 259(1983)334

Saccharide separations in reversed-phase HPLC using *n*-alkyl amine mobile phase additives 264(1983)215

Isolation of levanoligosaccharides from a partial acid hydrolysate of levan by cellulose CC 265(1983)374

Saccharin
On-line preconcentration and HPLC determination of *o*-toluenesulphonamide in saccharin 268(1983)395

Safrole
HPLC-fluorometric determination of safrole in perfume, cologne and toilet water 255(1983)455

Saikosaponins
HPLC system for a wide range of naturally occurring glycosides 258(1983)135

Separation and quantitative analysis of saikosaponins by HPLC 268(1983)85

Salicylaldehyde
Determination of desmethyl nortriptyline in plasma by GC before and after treatment with salicylaldehyde 274(1983)350

Salicylate
Rapid and sensitive method for the determination of salicylic acid in serum by reversed-phase ion-pair HPLC 274(1983)366

Improved LC analysis of phenytoin and salicylate using radial compression separation 275(1983)450

Salts
Effects of salts on the size exclusion behavior of poly(ethylene glycol) 257(1983)237

Sample clean-up
Applications of a microprocessor-controlled valve-switching unit for automated sample cleanup and trace enrichment in HPLC 264(1983)183

Sampling methods
Evaluation of a Tenax GC sampling procedure for collection and analysis of vehicle-related aromatic and halogenated hydrocarbons in ambient air 252(1982)147

Solvent trapping in capillary GC. Two-step chromatography 253(1982)17

Temperature variation of gas diffusion coefficients measured by the reversed-flow sampling technique 254(1983)15

Saponins
HPLC system for a wide range of naturally occurring glycosides 258(1983)135

Scanning densitometer
Characterization of a scanning densitometer for HPTLC 261(1983)55

Schaeffer acid
Quantitative HPLC analysis of the commercial dyestuff G acid and Gama acid 260(1983)97

Schiff bases
GC of iron(III) chelates of hexadentate Schiff bases 270(1983)354

Sebacates
Separation of alditol acetates from plasticizers and other contaminants by capillary GC 262(1983)249

Secoiridoid glucosides
TLC bioassay of iridoid and secoiridoid glucosides with a fungitoxic aglucone moiety using β-glucosidase and the fungus *Penicillium expansum* as a test organism 259(1983)522

Secondary-ion mass spectrometry
Survey of ionization methods with emphasis on LC-MS 251(1982)93

Secoverine
Automated determination of drugs in blood samples after enzymatic hydrolysis using precolumn switching and post-column reaction detection 255(1983)79

Sedimentation field flow fractionation
Sedimentation field flow fractionation at high force fields 255(1983)255

Sediments
Determination of cellulose and non-cellulose carbohydrates in recent sediments by GC 260(1983)487

Selective detection
New ways to increase the specificity of detection in LC (Review) 251(1982)1

Selectivity
Selectivity in liquid adsorption chromatography (Review) 251(1982)269

Multifactor model for the optimization of selectivity in reversed-phase chromatography 258(1983)11

Solvent selectivity in reversed-phase HPLC separation of isomers of polystyrene oligomers 264(1983)339

Sendai virus proteins
Purification of detergent-extracted Sendai virus proteins by reversed-phase HPLC 266(1983)577

Isolation of Sendai virus F protein by anion-exchange HPLC in the presence of Triton X-100 266(1983)629

Sennosides
Separation method for sennosides 258(1983)292

Sephadex G
Separation of oestrogens in biological fluids and synthetic mixtures on Sephadex G-type gels (Review) 271(1983)325

Sephadex LH-20
Selective and preparative gel chromatographic separation of low-molecular-weight substances on Sephadex LH-20 (in German) 254(1983)296

Sepiapterin
Post-column oxidation of reduced biopterins for fluorescence detection 254(1983)327

Serotonin
TLC separation and quantitation of radioactively labelled 5-hydroxytryptamine, 5-hydroxytryptamine-O-sulfate, and 5-hydroxyindoleacetic acid 252(1982)338

Simultaneous multiple electrode LC-electrochemical assay for catecholamines, indoleamines and metabolites in brain tissue 255(1983)533

Use of HPLC to study the caeruloplasmin-catalysed oxidation of biogenic amines. I. Single substrate systems 256(1983)71

Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

Use of HPLC to study the caeruloplasmin-catalysed oxidation of biogenic amines. II. Multiple substrate systems 257(1983)53

Chromatographic and spectrometric studies on conversion products of 5-hydroxyindole-3-acetic acid 270(1983)359

Simultaneous determination of 5-hydroxytryptamine, its amino acid precursors and acid metabolite in discrete brain regions by HPLC with fluorescence detection 275(1983)1

Separation of the indolealkylamines and their analogous tetrahydro-β-carbolines by LC 275(1983)21

Serotonin sulphate
Determination of dopamine-O-sulfate and norepinephrine-O-sulfate isomers and serotonin-O-sulfate by HPLC using dual-electrode electrochemical detection 264(1983)119

Serpentine tubes
Low-dispersion connecting tubes for LC systems 268(1983)169

Sesquiterpene lactones
Application of HPLC for analysis and isolation of sesquiterpene lactones 265(1983)97

Shale oil
Shale oil characterization by HPLC and optical activity detection 253(1982)199

Sialic acids
Analysis of sialic acids by GC of the mannosamine derivatives released by the action of N-acetylneuraminate lyase 272(1983)1

Sialoglycoproteins
Chromatofocusing of sialoglycoproteins 259(1983)423

Silanol groups
Role of silanophilic retention in the reversed-phase chromatography of chloramphenicol intermediates 257(1983)380

Transmission near-IR technique for evaluation and relative quantitation of surface groups on silica 260(1983)1

Silica gel
Size exclusion chromatography of polymer molecules on microparticulate silica gels: a comparative study 260(1983)41

Adsorption capacity and surface area measurements in HPLC on dynamically modified silica 260(1983)156

Characterization of chemically modified silica gels by ^{29}Si and ^{13}C cross-polarization and magic angle spinning NMR 264(1983)197

Transitions in chemically bonded organic phases on silica. Specific heat measurements by adiabatic calorimetry 268(1983)147

Characterization of silica bonded stationary phases 269(1983)127

Peak dispersion and mobile phase velocity in LC: the pertinent relationship for porous silica 270(1983)51

Effect of support characteristics on the determination of the lipophilicity of some neutral, acidic and alkaline compounds by reversed-phase TLC 270(1983)97

Silica gel surface
Transmission near-IR technique for evaluation and relative quantitation of surface groups on silica 260(1983)1

Silicic acid
Study of the polymerization of silicic acid in aqueous solution by trimethylsilylation-GC 258(1983)73

Silver
Chromatographic study of the reaction of mercury(II) and silver(I) ions with nickel dithiocarbamate complexes derived from some aromatic amine drugs 254(1983)123

Sinapoylglucose
Analytical and preparative HPLC of hydroxycinnamic acid esters 260(1983)447

Skewed peaks
Evaluation of methods of measuring GLC retention on skewed peaks 258(1983)1

SK&F 82526
Analysis of SK&F 82526 in plasma by HPLC with electrochemical detection 255(1983)491

SK&F 93479
The assay of a novel histamine H_2-receptor antagonist, SK&F 93479, in human plasma by normal-phase HPLC 275(1983)377

Small-diameter columns
see also Columns, capillary columns and microbore columns

Nomenclature of LC. On the description of small-diameter columns used in LC (Review) 251(1982)265

Sodium arsanilate
HPLC determination of aniline in arsanilic acid and sodium arsanilate 268(1983)265

Sodium benzoate
Simultaneous determination of phenylephrine hydrochloride, chlorpheniramine maleate and sodium benzoate by reversed-phase, paired-ion and competing-base HPLC 262(1983)404

Sodium chloroacetate
Analysis of amphoteric surfactants by LC with post-column detection. II. Imidazoline-type amphoteric surfactants derived from sodium chloroacetate 267(1983)133

Sodium dodecyl sulphate
Gel filtration in sodium dodecyl sulphate of hydrophobic muscle proteins on Sephacryl S-400 Superfine 254(1983)203

Solubility limits
Determination of the solubility limits of organic priority pollutants by GC headspace analysis 260(1983)23

Solubility parameter
Observations on capacity factor determination for reversed-phase LC with aqueous methanol eluents using the solubility parameter concept model and its derivatives 264(1983)47

Solute diffusivity
Effect of pressure on solute diffusivity, solvent viscosity and column temperature in LC 260(1983)277

Solution
Solution and adsorption thermodynamics in propylene glycol by GC. A comparative study with other polyhydroxylated solvents 259(1983)413

Solution-of-groups concept
Utilization of the solution-of-groups concept in GLC 258(1983)23

Solvent effects
Partial solvent trapping in capillary GC. Description of a solvent effect (Review) 251(1982)235

Observation of a peak under the action of "phase soaking" a GC solvent effect, during passage through a capillary column 259(1983)37

Solvent effects in capillary GC. Determination of trace amounts of chloroform as an example 264(1983)7

Solvent residues
GC determination of solvent residues and other materials in chemical and fermentation wastes 268(1983)31

Solvent trapping
Partial solvent trapping in capillary GC. Description of a solvent effect (Review) 251(1982)235

Solvent trapping in capillary GC. Two-step chromatography 253(1982)17

Solvent viscosity
Effect of pressure on solute diffusivity, solvent viscosity and column temperature in LC 260(1983)277

Somatostatin
HPLC preparation of single-site carrier-free pancreatic polypeptide hormone radiotracers 266(1983)239

Sparsomycin
Determination of sparsomycin in plasma and urine of the dog by means of reversed-phase HPLC and first pharmacokinetic results 275(1983)145

Speed of analysis
Increased speed of analysis in isothermal and temperature-programmed capillary GC by reduction of the column inner diameter 253(1982)1

LC system for fast, accurate analysis 253(1982)159

Spermidine
Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

HPLC determination of putrescine, spermidine and spermine after derivatisation with 4-fluoro-3-nitrobenzotrifluoride 258(1983)289

Determination of polyamines in hydrolysates of uremic plasma by high-performance cation-exchange column chromatography 272(1983)279

Analysis of polyamines and acetyl derivatives by a single automated amino acid analyzer technique 273(1983)263

Spermine
Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

HPLC determination of putrescine, spermidine and spermine after derivatisation with 4-fluoro-3-nitrobenzotrifluoride 258(1983)289

Detection of spermine and thermospermine by TLC 262(1983)451

Determination of polyamines in hydrolysates of uremic plasma by high-performance cation-exchange column chromatography 272(1983)279

Analysis of polyamines and acetyl derivatives by a single automated amino acid analyzer technique 273(1983)263

Sphagnorubins
Simple screening method for the separation and identification of sphagnorubins, a new class of anthocyanidins 268(1983)138

Spheron
Ion-exchange derivatives of Spheron. IV. Phosphate derivatives 261(1983)363

Sphingosine
Sphingosine determination at the picomole level using dimethylaminoazobenzene sulphonyl chloride 272(1983)21

Split injection
New split injection technique in capillary column GC 256(1983)201

Splitter
All-glass system for preparative glass capillary GC 262(1983)95

Splitter system
Injector and splitter system for silica wall-coated open tubular column GC 260(1983)164

Spray reagents
Unexpected specificity of iodine-potassium iodide spray reagent for closely related flavones 256(1983)151

Spray reagents for the detection of steroids and triterpenoids on thin-layer plates 258(1983)258

Colour reactions of iodic acid as reagent for identifying drugs by TLC 268(1983)528

Squalane
Mixed solvents in GLC. Activity coefficients for diethyl ether in squalane and dinonyl phthalate mixtures at 303°K 262(1983)33

Classification of the "polarity" of porous polymer bead stationary phases by comparison with squalane and Apolane standard liquid phases 269(1983)153

Staphylococcal enterotoxin B
HPLC of staphylococcal enterotoxin B 266(1983)179

Static reactor
Device for GC analysis, with mass balance, of gaseous reacting mixtures in a static reactor 270(1983)318

Stationary phase effects
Stationary phase effects on the reversed-phase LC retention behavior of purine and pyrimidine compounds 255(1983)151

Stationary phase effects in reversed-phase LC 255(1983)295

Stationary phase regeneration
Potential *in situ* regeneration of octadecyl-silica columns 253(1982)260

Stationary phases
see also Chiral stationary phases

Stationary phases, GC
Cyclodextrins as stationary phases in chromatography (Review) 251(1982)17

Liquid-crystalline stationary phases for GC (Review) 251(1982)311

Synthesis and chromatographic properties of cyanophenyl ethers 252(1982)91

Stationary phase properties of cyanophenyl ethers 253(1982)255

Cyanosilicones as stationary phases in GC. I. 254(1983)53

Classification of the "polarity" of porous polymer bead columns for GC at high temperature by analysis of standard polarity probes 254(1983)69

GLC of cholesteryl esters on non-polar and polar capillary columns following on-column injection 254(1983)195

GC separation of chrysanthemic acid ester enantiomers on a novel chiral stationary phase 254(1983)282

GC study of chemically bonded polymetallophenylsiloxanes 257(1983)13

Advances in fused-silica column technology for the analysis of underivatized drugs 257(1983)211

Improved analysis of sulphur gases on porous polymers 258(1983)228

Liquid crystals as stationary phases in GLC. V. Thermodynamic study of solutions in azoxy-4,4'-(diundecyl α-methyl cinnamate) and cholesteryl nonanoate; Kinetics of phase transitions of cholesteryl nonanoate (in French) 261(1983)11

Properties of single and mixed liquid-crystalline stationary phases. I. Single liquid-crystalline stationary phases 262(1983)141

Properties of single and mixed liquid-crystalline stationary phases. II. Mixed liquid-crystalline stationary phases 262(1983)161

GC behaviour of hydroxynaphthalenes and derivatives on liquid crystal stationary phases 262(1983)175

Liquid crystals. IV. Study of the supercooling effect on laterally substituted liquid crystalline compounds 264(1983)279

Cyanosilicones as stationary phases in GC. II. Gum and rubber phases on fused silica 267(1983)29

Synthesis and stationary phase properties of bromophenyl ethers 267(1983)293

Preparation of efficient packed columns with a polyperfluoroalkyl ether stationary phase 267(1983)388

Immobilization of silicone stationary phases for capillary chromatography through the action of azoisobutyronitrile 267(1983)395

Transitions in chemically bonded organic phases on silica. Specific heat measurements by adiabatic calorimetry 268(1983)147

Characterization of modified alumina as an adsorbent for GSC. Modification with dipotassium hydrogen phosphate 268(1983)359

Classification of the "polarity" of porous polymer bead stationary phases by comparison with squalane and Apolane standard liquid phases 269(1983)153

Stationary phases, LC

Cyclodextrins as stationary phases in chromatography (Review) 251(1982)17

Solvent composition effects with a cyano and a silica gel stationary phase in normal-phase LC of alkylphenols and naphthols 252(1982)21

HPLC of sugar mixtures containing xylose and arabinose on primary amino-bonded phases 253(1982)49

Potential *in situ* regeneration of octadecyl-silica columns 253(1982)260

Monomeric and polymeric derivatization in reversed-phase HPLC materials 254(1983)117

High-performance ligand-exchange chromatography of α-amino acid enantiomers. Studies on monomerically bonded 3-(L-prolyl)- and 3-(L-hydroxyprolyl)propyl silicas 255(1983)51

Effects of chain length and carbon load on the performance of alkyl-bonded silicas for protein separations 255(1983)115

High-performance anion-exchange chromatography of oligonucleotides 255(1983)137

Stationary phase effects on the reversed-phase LC retention behavior of purine and pyrimidine compounds 255(1983)151

LC of phenols on an 8-quinolinol silica gel-iron(III) stationary phase 256(1983)39

HPLC separation of enantiomers on (*S*)-1-(α-naphthyl)ethylamine bonded to silica gel 257(1983)111

Resolution of enantiomers of amino acid derivatives by HPLC in a silica gel bonded chiral amide phase 257(1983)118

Enantiomeric resolution of amino acids by high-performance ligand-exchange chromatography using histidine-bonded silica gel 260(1983)75

Comparative separation of low-molecular-weight carbohydrates and polyols by HPLC: radially compressed amine modified silica *versus* ion exchange 261(1983)65

Ion-exchange derivatives of Spheron. IV. Phosphate derivatives 261(1983)363

Artificial peaks in GPC due to combining column supports with different pore sizes 261(1983)381

Effect of packing irregularities along the bed length 262(1983)19

Quantitative determination of the degree of capping and structural investigation of octadecylsilane phases by means of pyrolysis in GC 262(1983)183

Dynamically coated columns and conductivity detection for trace determination of organic anions by ion chromatography 262(1983)311

Direct LC separation of enantiomers on immobilized protein stationary phases. III. Optical resolution of a series of N-aroyl D,L-amino acids by HPLC on bovine serum albumin covalently bound to silica 264(1983)63

Characterization of chemically modified silica gels by ^{29}Si and ^{13}C cross-polarization and magic angle spinning NMR 264(1983)197

Effect on column efficiency of packing capillary columns with inert spheres for use in LC 264(1983)258

Effect of the skeletal structure of sorbents containing L-hydroxyproline groups on enantioselectivity in ligand-exchange chromatography of amino acid racemates 264(1983)377

Boronic acid-silica: a new tool for the purification of catecholic compounds on-line with reversed-phase HPLC 265(1983)37

High-performance hydrophobic interaction chromatography of proteins 266(1983)49

Characterization of a new dehydroxylated reversed-phase material 267(1983)39

Retention behaviour of disubstituted benzene isomers on acetylated cyclodextrin stationary phases 267(1983)292

Transitions in chemically bonded organic phases on silica. Specific heat measurements by adiabatic calorimetry 268(1983)147

Synthesis and application of a boronic acid-substituted silica for high-performance liquid affinity chromatography 268(1983)291

Surface affinity chromatographic separation of blood cells. III. Effect of molecular weight of polyethylene glycol bonded stationary phases

on elution behaviour of human blood cells 268(1983)375

Liquid modifiers in reversed-phase LC with graphitized carbon black adsorbents 269(1983)47

Use of fluorinated bonded phases in reversed-phase HPLC of proteins 269(1983)96

Characterization of silica bonded stationary phases 269(1983)127

HPLC on dynamically modified silica. IV. Effects of variations of pH, ionic strength and buffer composition in eluents containing cetyltrimethylammonium bromide 270(1983)77

Chemically synthesized hydrophobic anion-exchange HPLC supports used for oligonucleotide resolution by mixed mode chromatography 270(1983)117

Inclusion chromatography of enantiomers of indole alkaloids on a cyclodextrin polymer stationary phase 270(1983)127

Reversed-phase HPLC of plant hormones: some useful differences in stationary phase selectivity 270(1983)309

Use of high-molecular-weight "neo" hydroxamic acids as the stationary phase in column extraction chromatography 270(1983)324

Stationary phases, TLC
TLC on chemically bonded phases: a comparison of pre-coated plates 258(1983)43

HPTLC pre-coated plates with amino modification and some applications 261(1983)235

Effect of support characteristics on the determination of the lipophilicity of some neutral, acidic and alkaline compounds by reversed-phase TLC 270(1983)97

Stearoyllinoleoylphosphatidylcholine
HPLC of hydroperoxy derivatives of stearoyllinoleoylphosphatidylcholine and of their enzymatic reduction products 270(1983)301

Steroid conjugates
Separation of steroid conjugates by HPLC (Review) 251(1982)289

Steroid receptors
Rapid analysis of estrogen receptor heterogeneity by chromatofocusing with HPLC 266(1983)115

Use of HPLC in the evaluation of the synthesis and binding of fluorescein-linked steroids to estrogen receptors 266(1983)129

Steroids
see also Hormones

Micro-bore HPLC for the analysis of pharmaceutical compounds 253(1982)227

Purification of ^{125}I-labelled compounds by HPLC with on-line detection 254(1983)229

Quantitation of radiolabeled biological molecules separated by HPLC 255(1983)209

HPLC separation of catechol estrogens: use as a screening procedure for evaluation of *in vitro* metabolism of [^{3}H]estradiol 256(1983)335

TLC systems for the separation of some estrogen acetates 256(1983)375

Simultaneous measurement of four testicular Δ^4-3-ketosteroids by isocratic HPLC with on-line UV absorbance detection 257(1983)81

Efficient isolation of phytoecdysones from *Ajuga* plants by HPLC and droplet counter-current chromatography 257(1983)157

Spray reagents for the detection of steroids and triterpenoids on thin-layer plates 258(1983)258

Pitfalls in assessing the radiopurity of tritiated steroids by HPLC 261(1983)298

Direct liquid introduction micro-LC-MS coupling. Optimization of droplet desolvation and instrumental parameters for high sensitivity 264(1983)357

Use of HPLC in the evaluation of the synthesis and binding of fluorescein-linked steroids to estrogen receptors 266(1983)129

Adsorption chromatographic separation of ^{125}I-labelled estriol and estriol-6-(O-carboxymethyl)oxime tyrosine methyl ester 267(1983)420

Separation of oestrogens in biological fluids and synthetic mixtures on Sephadex G-type gels (Review) 271(1983)325

Analysis of corticosterone in the serum of mice and rats using HPLC 272(1983)170

Rapid simultaneous assay of serum estrone, estradiol, and estriol in pregnant women using methyl ether acetate derivatives by capillary GC and electron-impact MS 272(1983)233

Determination of 20α-hydroxy-9β,10α-pregna-4,6-dien-3-one in plasma by selected ion monitoring 272(1983)243

Stratum corneum
Quantitation of the ε-(γ-glutamyl)lysine cross-link using a high-speed amino acid analyzer without purification of the dipeptide. Application to enzymatic digested mixtures of keratin and the membranous fraction of human stratum corneum 274(1983)63

Streptovirudin
HPLC comparison of the tunicaminyluracil-based antibiotics corynetoxin, tunicamycin, streptovirudin and MM 19290 268(1983)245

Stripping
Modified stripping technique for the analysis of trace organics in water 252(1982)139

Structural cell proteins
Analysis of structural cell proteins by isoelectric focusing in zwitterionic agarose gel thin layers 268(1983)79

Structure-activity relationships
Determination of partition coefficients of pyrido[1,2-*a*]pyrimidin-4-one derivatives by traditional shake, TLC and GLC methods 252(1982)67

R_M values, retention times and octanol-water partition coefficients of a series of 5-nitroimidazoles 259(1983)329

Quantitative structure-activity relationships for herbicides. Reversed-phase liquid chromatographic retention parameter, log k_w, *versus* liquid-liquid partition coefficient as a model of the hydrophobicity of phenylureas, *s*-triazines and phenoxycarbonic acid derivatives 261(1983)329

Structure-distribution relationships
Structure-distribution relationships of radiopharmaceuticals. Correlation between the reversed-phase capacity factors for Tc-99m phenylcarbamoylmethyliminodiacetic acids and their renal elimination 255(1983)91

Structure-retention relationships
Applicability of GLC in determining liquid-liquid partition data 252(1982)77

Qualitative ion-pair reversed-phase TLC 252(1982)193

Quantitative structure-retention relationships for dinucleoside monophosphates as a function of pH 253(1982)252

Separation of azaarenes by polyamide TLC and the relationship between their basicity and R_F values 254(1983)35

Linearity of retention data plots for *n*-alkanes on porous silica in GC 257(1983)107

HPLC behaviour of N-substituted phthalimides. Calculation of capacity factors for members of the homologous series 257(1983)247

Observations on capacity factor determination for reversed-phase LC with aqueous methanol eluents using the solubility parameter concept model and its derivatives 264(1983)47

Correlation between the retention of cardiac glycosides in reversed-phase HPLC with a diphenylsilyl stationary phase, their structure and biological activity (Letter to the Editor) 264(1983)485

Reversed-phase LC elution characteristics of substituted N-ethylbenzamides 267(1983)277

Correlation of pK_{BH+} of acetanilides with LC behaviour 267(1983)399

Relationships between molecular connectivity indices, partition coefficients and chromatographic parameters 269(1983)91

Influence of eluent composition on lipophilicity measurements using reversed-phase TLC 270(1983)87

Styrene oligomers
Separation of styrene oligomers using normal nitrile-bonded phase LC with UV and fluorescence detection 252(1982)325

Isolation by preparative chromatography and characterization of styrene oligomers from 1 to 18 and their application in pore size distribution determination 254(1983)289

Substituent interaction
Substituent interaction effects in aromatic molecules in reversed-phase LC 253(1982)23

Subtilisin-A
Automated determination of drugs in blood samples after enzymatic hydrolysis using precolumn switching and post-column reaction detection 255(1983)79

Subtractor columns
Porous sulphonic acid resins as subtractor for olefins in GC 254(1983)270

Sucrose
Determination of sucrose, glucose and fructose in plant tissue by HPLC 264(1983)474

Sugars
see also Carbohydrates and saccharides

HPLC of sugar mixtures containing xylose and arabinose on primary amino-bonded phases 253(1982)49

Analysis of synthetic mixtures of partially methylated alditol acetates by capillary GC, GC-electron impact MS and GC-chemical ionization MS 253(1982)55

Sensitive analysis of aldose sugars by reversed-phase HPLC 253(1982)124

Reversed-phase LC analysis of Dns-sugars. Optimization of derivatization and chromatographic procedures and applications to natural samples 256(1983)27

Complete separation and quantification of neutral sugars from plant cell walls and mucilages by HPLC 256(1983)157

Detection of neutral and aminosugars from glycoproteins and polysaccharides as their alditol acetates 256(1983)419

Capillary GC analysis of alditol acetates of neutral and amino sugars in bacterial cell walls 256(1983)429

Separation of mono- and disaccharides by HPLC with a strong cation-exchange resin and an acetonitrile-rich eluent 258(1983)284

Study of the HPLC separation of reducing sugars, applied to the determination of lactose in milk 259(1983)79

GLC resolution of sugar enantiomers as diastereoisomeric methylbenzylaminoalditols 259(1983)159

GC separation of enantiomeric sugars as diastereomeric trifluoroacetylated (-)-bornyloximes 259(1983)164

Separation and determination of neutral monosaccharides using methanolysis and HPLC 259(1983)334

Determination of sucrose, glucose and fructose in plant tissue by HPLC 264(1983)474

Thermal-UV method for differential detection and recovery of organic compounds in TLC 265(1983)193

Use of HPLC to quantitate the opiate and sugar content of illicit heroin preparations 265(1983)293

Determination of neutral, amino and N-acetyl amino sugars as alditol benzoates by LSC 265(1983)335

Sulindac
Sample preparation by salts precipitation and quantitation by HPLC with UV detection of selected drugs in biological fluids 257(1983)345

Reversed-phase HPLC of sulindac and related compounds using a computer simulation 259(1983)17

Sulphamethoxazole
Determination of trimethoprim, sulphamethoxazole and its N^4-acetyl metabolite in biological fluids by HPLC 274(1983)187

Sulphanilamide
TLC detection of the herbicide asulam in soils and the identification of sulphanilamide as a minor soil degradation product 265(1983)378

Sulphapyridine
HPLC method for determination of sulfapyridine in human saliva using post-column, in-line derivatization with fluorescamine 273(1983)464

Sulphaquinoxaline
Trace analysis of sulfaquinoxaline in animal tissues by HPLC 275(1983)115

Sulphasalazine
A rapid method for the simultaneous determination of the major metabolites of sulphasalazine in plasma 274(1983)393

Sulphate
Separation and analysis of sulfate, phosphate and other oxyanions as their *tert.*-butyldimethylsilyl derivatives by GLC and MS 257(1983)37

Determination of nitrate, chloride and sulphate in drinking water by capillary free-zone electrophoresis 267(1983)455

Modeling of analyte response to changing eluent composition in suppressed ion chromatography 269(1983)202

Sulphatides
Simple and rapid purification of acidic lipids from rat brains 260(1983)513

Sulphonates
Separations of position-isomeric aromatic sulphonates by high-voltage electrophoresis in dimethylformamide (in German) 268(1983)477

Sulphonic acid resins
Porous sulphonic acid resins as subtractor for olefins in GC 254(1983)270

Sulphonic acids
Qualitative ion-pair reversed-phase TLC 252(1982)193

Comparison of retention behaviour of aromatic sulphonic acids in reversed-phase systems with mobile phases containing ion-pairing ions and in systems with solutions of inorganic salts as the mobile phases 262(1983)121

Separation of organic and metal ions by high-voltage capillary electrophoresis 264(1983)385

Sulphonylurea
Micro-bore HPLC for the analysis of pharmaceutical compounds 253(1982)227

Sulphosalicylic acid
Spray reagents for the detection of steroids and triterpenoids on thin-layer plates 258(1983)258

Sulphoxide
Direct LC separation of enantiomers on immobilized protein stationary phases. II. Optical resolution of a sulphoxide, a sulophoximine and a benzoylamino acid 252(1982)297

Sulphoximine
Direct LC separation of enantiomers on immobilized protein stationary phases. II. Optical resolution of a sulphoxide, a sulophoximine and a benzoylamino acid 252(1982)297

Sulphur-containing compounds
Separation of sulphur-containing substances, amino acids and nucleotides during gel filtration on Trisacryl GF05 by specific gel interaction 264(1983)111

Sulphur gases
Improved analysis of sulphur gases on porous polymers 258(1983)228

Sulphur mustard
Detection of β,β'-dichloroethyl sulphide on thin-layer chromatograms 264(1983)445

Supercooling effect
Liquid crystals. IV. Study of the supercooling effect on laterally substituted liquid crystalline compounds 264(1983)279

Supercritical fluid chromatography
Theoretical treatment of resolving power in open tubular column supercritical fluid chromatography 259(1983)1

Gradient elution in supercritical fluid chromatography 267(1983)267

Surface area
Adsorption capacity and surface area measurements in HPLC on dynamically modified silica 260(1983)156

Surface-area effects
Separation of macromolecules by reversed-phase HPLC. Pore-size and surface-area effects for polystyrene samples of varying molecular weight 255(1983)163

Surfactants
HPLC method for determining ethoxymer distribution of alkylphenoxy polyoxyethylene surfactants 253(1982)283

Selective adsorption of non-ionic surfactants using an anion-exchange resin in the cobaltithiocyanate form 260(1983)483

Analysis of non-UV absorbing dialkyl-type cationic surfactants by LC with an on-line ion-pair extraction detector 262(1983)293

Homologous distribution analysis of imidazoline type cationic surfactants by HPLC 262(1983)408

Analysis of amphoteric surfactants by LC with post-column detection. I. Mono- and dialanine type surfactants 264(1983)415

Analysis of amphoteric surfactants by LC with post-column detection. II. Imidazoline-type amphoteric surfactants derived from sodium chloroacetate 267(1983)133

Analysis of amphoteric surfactants by LC with post-column detection. III. Salt-free imidazoline amphoteric surfactants 267(1983)149

T

Tamoxifen
Determination of tamoxifen and metabolites in human serum by HPLC with post-column fluorescence activation 272(1983)351

HPLC analysis of tamoxifen and major metabolites in human plasma 275(1983)436

Tandem mass spectrometry
Analysis of organics in the environment by functional group using a triple quadrupole mass spectrometer 271(1983)93

Determination of drugs in biological samples by TLC-tandem MS 271(1983)107

Tannic acids
Analysis of gallic, digallic and trigallic acids in tannic acids by HPLC 265(1983)363

Analysis of tannic acids by HPLC 268(1983)469

Taurine
Determination of taurine in foods and feeds using an amino acid analyser 254(1983)332

Taurine conjugates
Formation and separation by reversed-phase HPLC of fluorescent and UV-absorbing bile salt derivatives 260(1983)115

Technetium
Non-aqueous electrophoresis study of complex formation between catechol and technetium(V) 267(1983)213

Technetium-99m complexes
Structure-distribution relationships of radiopharmaceuticals. Correlation between the reversed-phase capacity factors for Tc-99m phenylcarbamoylmethyliminodiacetic acids and their renal elimination 255(1983)91

Television camera-microcomputer system
Quantitative analysis of two-dimensional electropherograms with a television camera-microcomputer system 264(1983)435

Temperature effects
Concentration and temperature effects in GPC 261(1983)33

Column temperature effects on GC responses to organophosphorus pesticides 264(1983)33

Temperature programming
Increased speed of analysis in isothermal and temperature-programmed capillary GC by reduction of the column inner diameter 253(1982)1

Temperature-programmed reversed-phase LC with packed fused-silica columns 267(1983)125

Terpane
Enrichment of polycyclic terpenoid, saturated hydrocarbons from petroleum by adsorption on zeolite NaX 270(1983)219

Terpene alcohols
Terpenoid analysis. II. The separation of some monoterpene alcohols by HPLC with electrochemical detection 260(1983)173

Terpenes
Quantitative determination of a mixture of extracts of drugs from volatile oils by HPLC (in German) 262(1983)285

GC-MS investigation of the volatile components of myrtle berries (*Myrtus communis* L.) 264(1983)304

Analysis of terpenes from *Ginkgo biloba* L. by HPLC 267(1983)431

Terpenoids
Analysis of terpenes from *Ginkgo biloba* L. by HPLC 267(1983)431

Jone's oxidation of terpenoids on TLC plates 268(1983)549

Testosterone
Simultaneous measurement of four testicular Δ^4-3-ketosteroids by isocratic HPLC with on-line UV absorbance detection 257(1983)81

Tetraalkylammonium
Studies in reversed-phase ion-pair chromatography. I. Adsorption isotherms of tetraalkylammonium ion-pair reagents on LiChrosorb RP-18 in methanol-water eluents 260(1983)337

Tetrabutylammonium
Isolation of pituitary peptides by reversed-phase HPLC. Expansion of the resolving power of reversed-phase columns by manipulating pH and the nature of the ion-pairing reagent 266(1983)501

Tetrabutylammonium bromide
Studies in reversed-phase ion-pair chromatography. I. Adsorption isotherms of tetraalkylammonium ion-pair reagents on LiChrosorb RP-18 in methanol-water eluents 260(1983)337

Studies in ion-pair chromatography. II. Retention of positive and negative ions and neutral solutes in tetrabutylammonium bromide-containing methanol-water eluents on LiChrosorb RP-18 265(1983)171

Tetracaine
Determination of chlorhexidine and tetracaine in pharmaceutical preparations by ion-pair LC on a nitrile bonded phase (in French) 259(1983)360

Tetracyclines
Improvement of the chemical analysis of antibiotics. I. Simple method for the analysis of tetracyclines on silica gel HPTLC plates 260(1983)457

Tetrahydroaminoacridine
HPLC determination of tetrahydroaminoacridine in human and rat tissues using a rapid Sep-Pak C_{18} extraction 274(1983)388

Tetrahydrobiopterin
Post-column oxidation of reduced biopterins for fluorescence detection 254(1983)327

11-nor-Δ^9-Tetrahydrocannabinol-9-carboxylic acid
TLC-MS identification of 11-nor-Δ^9-tetrahydrocannabinol-9-carboxylic acid 264(1983)336

Tetrahydrofuran
Use of various organic modifiers in TLC on chemically bonded phases 265(1983)105

4,5,6,7-Tetrahydroisoxazolo[5,4-*c*]pyridin-3-ol
Quantitative determination of the γ-aminobutyric acid agonist, 4,5,6,7-tetrahydroisoxazolo[5,4-*c*]pyridin-3-ol, in serum by HPLC 274(1983)209

Tetramethylenedithiocarbamates
Quantitative TLC of lead in contaminated environmental materials after separation as tetramethylenedithiocarbamate and *in situ* determination as lead sulphide (in German) 259(1983)195

Tetramethyltin
GC separation of mono, di- and trimethyltin chlorides and tetramethyltin 259(1983)350

Tetrodotoxin
Separation of tetrodotoxin and paralytic shellfish poisons by HPLC with a fluorometric detection using *o*-phthalaldehyde 257(1983)373

Thebaine
HPLC separation of alkaloids from *Papaver somniferum* on a Zorbax NH_2 analytical column 253(1982)120

Theophylline
Analysis of some commercial preparations for migraine treatment using ion-pair HPLC with addition of salts to the mobile phase 261(1983)345

Thermal conductivity detector
Thermal conductivity detector: theory and numerical model 256(1983)1

Thermal desorption
GC adsorption-desorption techniques for measuring acid strength distribution on solid catalysts 268(1983)207

Thermal-UV detection
Thermal-UV method for differential detection and recovery of organic compounds in TLC 265(1983)193

Thermospermine
Detection of spermine and thermospermine by TLC 262(1983)451

Thermospray ionization
Optimization of the instrumental parameters of a combined liquid chromatograph-mass spectrometer, coupled by an interface for direct liquid introduction. III. Why the solvent should not be removed in LC-MS interfacing methods 251(1982)153

Thiabendazole
Determination of thiabendazole residues in marmalades by HPLC 257(1983)416

Thiamine
Separation and determination of thiamine, pyrithiamine, pyridine, 2-methyl-4-amino-5-hydroxymethylpyrimidine and 4-methyl-5-(β-hydroxyethyl)thiazole by reversed-phase HPLC 258(1983)307

GC determination of thiamine in meats, vegetables and cereals with a nitrogen-phosphorus detector 262(1983)257

Thin-layer plates
TLC on chemically bonded phases: a comparison of pre-coated plates 258(1983)43

HPTLC pre-coated plates with amino modification and some applications 261(1983)235

Thiocyanate
GC determination of inorganic anions as pentafluorobenzyl derivatives 269(1983)183

Thiols
Electrophoresis of thiols in cellulose gels. II. Application of cellulose gel membranes 261(1983)127

GC identification of thiols in the naphtha cut from Libyan crude oil 265(1983)136

Thiosulphate
Reversed-phase ion-pair LC procedure with electrochemical detection for the analysis of urinary thiosulphate 274(1983)95

Thiourea
HPLC of urea and related compounds with post-column derivatization 252(1982)209

Thiourea dioxide
HPLC of urea and related compounds with post-column derivatization 252(1982)209

Thromboxane
Prostaglandins and thromboxane: *tert.*-butyldimethylsilyl ethers as derivatives for their analyses by GC-MS-selected ion monitoring 254(1983)91

Thromboxanes
Separation and quantitative determination of radiolabeled prostaglandins, thromboxanes, 6-keto-prostaglandin $F_{1\alpha}$ and other arachidonic acid metabolites produced in biological material 275(1983)61

Thymol
Terpenoid analysis. II. The separation of some monoterpene alcohols by HPLC with electrochemical detection 260(1983)173

Thymosin α_1
Isolation of thymosin α_1 from thymosin fraction 5 of different species by HPLC 266(1983)533

Thyroid hormones
Purification of ^{125}I-labelled compounds by HPLC with on-line detection 254(1983)229

Thyroid-stimulating hormone
HPLC of amino acids, peptides and proteins. XLVII. Analytical and semi-preparative separation of several pituitary proteins by high-performance ion-exchange chromatography 266(1983)273

Reversed-phase HPLC of human thyroid-stimulating hormone 270(1983)285

Thyroxine
Purification of ^{125}I-labelled compounds by HPLC with on-line detection 254(1983)229

Ticlopidine
On-line diode array UV-visible spectrometry in screening for drugs and drug metabolites by HPLC 267(1983)329

Time-based zone length
Analytical isotachophoresis utilizing computer simulation. I. Factors affecting the quantitative indices and utility for determinations 260(1983)225

Tinuvin 144
Chromatographic determination of some hindered amine light stabilizers in polyolefins 260(1983)507

Tinuvin 770
Chromatographic determination of some hindered amine light stabilizers in polyolefins 260(1983)507

Titanaindene complexes
HPLC of homologous titanaindene complexes 270(1983)191

Titanium compounds
HPLC of bis(η^5-1,2,3,4,5-pentamethylcyclopentadienyl)-titanium, zirconium and hafnium dichlorides 269(1983)11

Tobacco smoke
Chemical studies on tobacco smoke. LXXV. Rapid method for the analysis of tobacco-specific N-nitrosamines by GLC with a thermal energy analyser 256(1983)347

Toilet water
HPLC-fluorometric determination of safrole in perfume, cologne and toilet water 255(1983)455

Toloxatone
GLC determination of toloxatone in human plasma. Routine analysis of a wide range of

drug concentrations using a nitrogen-selective detector 274(1983)139

Toluenediamine
Simultaneous determination of amines and isocyanates in working atmospheres by GLC 261(1983)253

Toluene diisocyanate
Quantitative determination of airborne 2,4-toluene diisocyanate 256(1983)352

Toluenediisocyanates
Simultaneous determination of amines and isocyanates in working atmospheres by GLC 261(1983)253

***o*-Toluenesulphonamide**
On-line preconcentration and HPLC determination of *o*-toluenesulphonamide in saccharin 268(1983)395

***p*-Toluenesulphonic acid**
Separation and quantitative determination of long-chain alkyltrimethylammonium ions by reversed-phase ion-pair LC using UV-absorbing counter ions 261(1983)117

Townsend discharge
Optimization of the instrumental parameters of a combined liquid chromatography-mass spectrometer, coupled by an interface for direct liquid introduction. IV. A new desolvation chamber for droplet focusing or Townsend discharge ionization 271(1983)43

Toxins
Separation of tetrodotoxin and paralytic shellfish poisons by HPLC with a fluorometric detection using *o*-phthalaldehyde 257(1983)373

Characteristics of protein-aqueous medium interactions measured by partition in aqueous Ficoll-Dextran biphasic system 260(1983)329

HPLC of staphylococcal enterotoxin B 266(1983)179

Analysis of Cortinarius mushrooms by HPLC 268(1983)535

Rapid purification of diphtheria toxin by Phenyl Sepharose and DEAE-cellulose chromatography 268(1983)543

Toyopearl
Fractionation of high-molecular-weight proteins with mixed Toyopearl packings 270(1983)383

DEAE-Toyopearl 650
Evaluation of conventional and medium-performance anion exchangers for the separation of proteins 253(1982)219

CM-Toyopearl 650
Characterization of TSK-GEL CM-Toyopearl 650 ion exchanger 268(1983)425

Trace analysis
Modified stripping technique for the analysis of trace organics in water 252(1982)139

Trace enrichment
Dynamically coated columns and conductivity detection for trace determination of organic anions by ion chromatography 262(1983)311

Applications of a microprocessor-controlled valve-switching unit for automated sample cleanup and trace enrichment in HPLC 264(1983)183

Interference effects in trapping trace components from gases on chromatographic sorbents. Sorption of benzene in the presence of *o*-xylene 265(1983)215

Trace metals
Multi-element analysis of trace metals in some environmental samples by solvent extraction and HPLC of metal chelate complexes 256(1983)253

Gel chromatographic behaviour of trace amounts of chromium(IV) and hydrolysed chromium(III) in aqueous solution 257(1983)180

Tracer pulse chromatography
Tracer pulse chromatography: a review and prospectus (Review) 251(1982)281

Transferrin
Separation of transferrin types in human plasma by anion-exchange HPLC 266(1983)281

Studies on multiple molecular forms of transferrin 274(1983)337

Transport interface
LC-MS in the pharmaceutical industry: objectives and needs 251(1982)141

Optimization of the instrumental parameters of a combined liquid chromatograph-mass spectrometer, coupled by an interface for direct liquid introduction. III. Why the solvent should not be removed in LC-MS interfacing methods 251(1982)153

HPLC-MS with transport interfaces 251(1982)165

Tretinoin
Determination of all-*trans*- and 13-*cis*-retinoic acids by two-phase, two-dimensional TLC in creams and by HPTLC in gel formulations 258(1983)314

Triazines
Applicability of GLC in determining liquid-liquid partition data 252(1982)77

Application of affinity partitioning in an aqueous two-phase system to the investigation of triazine dye-enzyme interactions 259(1983)97

Quantitative structure-activity relationships for herbicides. Reversed-phase liquid chromatographic retention parameter, log k_w, *versus* liquid-liquid partition coefficient as a model of the hydrophobicity of phenylureas, *s*-triazines and phenoxycarbonic acid derivatives 261(1983)329

Effect of support characteristics on the determination of the lipophilicity of some neutral, acidic and alkaline compounds by reversed-phase TLC 270(1983)97

HPLC determination of hexazinone residues in soil and water 270(1983)396

Triazolam
Development of a LC method for the determination of triazolo-benzodiazepines 268(1983)92

Simultaneous assay of triazolam and its main hydroxy metabolite in plasma and urine by capillary GC 274(1983)161

Triazolo-benzodiazepines
Development of a LC method for the determination of triazolo-benzodiazepines 268(1983)92

Tri-*n*-butylacetohydroxamic acid
Use of high-molecular-weight "neo" hydroxamic acids as the stationary phase in column extraction chromatography 270(1983)324

Tributylphosphate
Determination of porphyrins in urine by direct injection on a LC column coated with tributylphosphate 275(1983)51

Tributyltin(IV) N,N-dialkyldithiocarbamates
GC of tributyltin(IV) N,N-dialkyldithiocarbamates 256(1983)465

Trichloroacetates
GC of homologous esters. XX. Capillary column studies of alkyl acetates, chloroacetates, dichloroacetates and trichloroacetates 256(1983)221

Trichloroethyl chloroformate
A simplified method for the GC determination of pethidine and norpethidine after derivatization with trichloroethyl chloroformate 274(1983)355

Trichothecenes
Interference in the GC determination of deoxynivalenol in cultures of *Fusarium solani* on corn 252(1982)305

Use of chromotropic acid for improved TLC visualization of trichothecene mycotoxins 261(1983)130

Tricyclanes
Enrichment of polycyclic terpenoid, saturated hydrocarbons from petroleum by adsorption on zeolite NaX 270(1983)219

Tricyclic amines
Solvent extraction of tricyclic amines from blood plasma and LC determination 273(1983)151

Triethanolamine
Analytical study of low-concentration gases. IV. Investigation of the reaction by trapping nitrogen dioxide in air using the triethanolamine method 265(1983)69

Trifluoroacetylacetonates
Effect of ligand doping on the GC of the trifluoroacetylacetonates of chromium(III), aluminium(III) and iron(III) 256(1983)455

Trigallic acid
Analysis of gallic, digallic and trigallic acids in tannic acids by HPLC 265(1983)363

Triglycerides
GLC analysis of intact long-chain triglycerides 273(1983)172

GLC profiling of intact lipids. Observation of differences between triglyceride structure of lipoproteins in type III and type IV hyperlipoproteinemia 273(1983)180

Triiodothyronine
Purification of ^{125}I-labelled compounds by HPLC with on-line detection 254(1983)229

Multiple affinity classes of saturable triiodothyronine binding in mouse liver nuclear extract demonstrated using high-performance size exclusion chromatography 268(1983)300

Trimethadione
Determination of trimethadione and its metabolite by GC with flame-thermionic detection and its application to pharmacokinetic studies of the drug in carbon tetrachloride-treated rats 272(1983)380

Trimethoprim
Determination of trimethoprim, sulphamethoxazole and its N^4-acetyl metabolite in biological fluids by HPLC 274(1983)187

Trimethylanilinium hydroxide
Quantitative GLC determination of pemoline using trimethylanilinium hydroxide 252(1982)319

***cis*-3,3,5-Trimethylcyclohexanol**
Determination of free and conjugated *cis*-3,3,5-trimethylcyclohexanol in plasma and urine (in French) 272(1983)299

6-N-Trimethyllysine
Determination of 6-N-trimethyllysine in urine by HPLC 272(1983)43

Trimethylmethoxysilane
Potential *in situ* regeneration of octadecyl-silica columns 253(1982)260

Trimethylsilylation
Formation of a new derivative of secondary amines during trimethylsilylation with N,O-bis(trimethylsilyl)fluoroacetamide. N-(Aminomethylene)-2,2,2-trifluoroacetamides 254(1983)109

Trimethylsulphonium hydroxide
Rapid method for the determination of fatty acid profiles from fats and oils using trimethylsulphonium hydroxide for transesterification 261(1983)142

Trioctylmethylammonium chloride
tRNA separation by HPLC using an aggregate of ODS-Hypersil and trioctylmethylammonium chloride 257(1983)305

Triosephosphate isomerase
Separation of deamidated forms of triosephosphate isomerase by chromatofocusing. A comparison of chromatofocusing with column isoelectric focusing 265(1983)126

Tripeptides
HPTLC of diastereomeric di- and tripeptides on ready-for-use plates of silanized silica gel and on ammonium tungstophosphate layers 265(1983)328

Triphenylchlorosilane
Thermostable deactivation reagents for capillary column preparation 260(1983)168

Triphenylmethanes
HPLC of quinoidal imminium compounds derived from triphenylmethanes 255(1983)101

Trisacryl GF05
Separation of sulphur-containing substances, amino acids and nucleotides during gel filtration on Trisacryl GF05 by specific gel interaction 264(1983)111

Triterpenoids
Spray reagents for the detection of steroids and triterpenoids on thin-layer plates 258(1983)258

Triterpenoid saponins
HPLC system for a wide range of naturally occurring glycosides 258(1983)135

Triton X-100
TLC fluorometry of ethoxyquin using Triton X-100 262(1983)340

Trypsin
Studies on lectins. LIV. Affinity electrophoresis of lectins and trypsin on affinity gels prepared from Sephadex derivatives incorporated into a polyacrylamide gel matrix 257(1983)297

Model study of hydrophobic interactions of α- and β-trypsin and α-chymotrypsin 259(1983)255

Affinity chromatography of trypsin on thermally modified casein 261(1983)138

Purification of trypsin and other basic proteins by high-performance cation-exchange chromatography 266(1983)633

Proteinase inhibitory assays of serum using high-performance size exclusion chromatography 275(1983)283

Tryptamine
Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

Separation of the indolealkylamines and their analogous tetrahydro-β-carbolines by LC 275(1983)21

Tryptophan
Determination of the enantiomeric purity of levodopa, methyldopa, carbidopa and tryptophan by use of chiral mobile phase HPLC 257(1983)317

Simultaneous determination of 5-hydroxytryptamine, its amino acid precursors and acid metabolite in discrete brain regions by HPLC with fluorescence detection 275(1983)1

Tryptophan derivatives
Separation of some tyrosine, tryptophan and phenylalanine derivatives by TLC 267(1983)443

TSK-GEL IEX-645 DEAE
New ion exchanger for the separation of proteins and nucleic acids 266(1983)385

Tubulin
HPLC application of the Hummel and Dreyer method for the determination of colchicine-tubulin binding parameters 266(1983)141

Tunicamycin
HPLC comparison of the tunicaminyluracil-based antibiotics corynetoxin, tunicamycin, streptovirudin and MM 19290 268(1983)245

Two-dimensional chromatography
Computer assistance in the selection of the optimum combination of systems for two-dimensional chromatography 264(1983)1

Two-dimensional column chromatography
Effects of intermediate mobile phase removal on column performance in two-dimensional CC 265(1983)159

Two-dimensional thin-layer chromatography
Applications of two-dimensional TLC (Review) 271(1983)127

Tyramine
Determination of mono-, di- and polyamines in foods using a single-column amino acid auto-analyzer 256(1983)313

Tyrosine
Off-line combination of LC and field desorption MS: principles and environmental, medical and pharmaceutical applications 251(1982)105

HPLC separation of alkaloids from *Papaver somniferum* on a Zorbax NH_2 analytical column 253(1982)120

Determination of L-tyrosine in rat brain by reversed-phase LC with electrochemical detection 262(1983)415

Tyrosine derivatives
Separation of some tyrosine, tryptophan and phenylalanine derivatives by TLC 267(1983)443

U

UNIFAC model
Utilization of the solution-of-groups concept in GLC 258(1983)23

Uracil arabinoside
HPLC assay for cytosine arabinoside, uracil arabinoside and some related nucleosides 274(1983)87

Uranium
Factors affecting single-stage separation coefficients and profile of the chromatogram in uranium isotope enrichment by cation-exchange chromatography using uranyl-carboxylate complexes 256(1983)231

Urea
HPLC of urea and related compounds with post-column derivatization 252(1982)209

Uric acid
HPLC determination of low level uric acid in grains and cereal products as a measure of insect infestation 269(1983)191

Simultaneous determination of plasma and urinary uric acid, xanthine, hypoxanthine, allopurinol, oxipurinol, orotic acid, orotidine and creatinine by HPLC 274(1983)75

Urinary peptides
Urinary peptides in rheumatic diseases. Separation by reversed-phase HPLC 273(1983)197

Urinary proteins
Urinary protein isolation by high-performance ion-exchange chromatography 266(1983)187

Urokinase
Determination of urokinase activity by HPLC with radioisotope detection 253(1982)81

Uronic acid
Determination of the uronic acid composition of alginates by HPLC 264(1983)137

Urotropin
TLC investigation of the interaction between dispersed dyes and hydrotropic agents 270(1983)348

Ursodeoxycholic acid
HPLC determination of bile acids involved in the synthesis of ursodeoxycholic acid 270(1983)402

V

Valproic acid
Quantitative trace analysis by reversed-phase LC-MS 271(1983)61

Determination of valproic acid in human serum by GLC on OV-17 using nitrogen-specific detection 272(1983)181

Valve-switching unit
Applications of a microprocessor-controlled valve-switching unit for automated sample cleanup and trace enrichment in HPLC 264(1983)183

Vanadium
Development of a simultaneous GC method for the analysis of copper, nickel and vanadium at the ultra-trace level 254(1983)133

Vasicine
HPLC determination of vasicine and vasicinone in *Adhatoda vasica* Nees 258(1983)183

Vasicinone
HPLC determination of vasicine and vasicinone in *Adhatoda vasica* Nees 258(1983)183

Vasoactive intestinal peptide
HPLC preparation of single-site carrier-free pancreatic polypeptide hormone radiotracers 266(1983)239

Vasopressin
HPLC of tyrosine-related peptides with electrochemical detection 262(1983)420

Venoms
Isolation of the prothrombin-converting enzyme from fibrinogenolytic enzymes of *Echis carinatus* venom by chromatographic and electrophoretic methods 259(1983)473

Fractionation of *Echis carinatus* venom by affinity chromatography on immobilized lectins 260(1983)522

Fast protein LC of *Echis carinatus* venom 261(1983)163

Verapamil
Ion-exchange HPLC in drug assay in biological fluids. II. Verapamil 275(1983)195

Verbenone
GC-circular dichroism system for detection of optically active substances 262(1983)321

Vincadifformine
Inclusion chromatography of enantiomers of indole alkaloids on a cyclodextrin polymer stationary phase 270(1983)127

Vincamine
Determination of vincamine by HPLC with dual-wavelength UV detection 270(1983)387

Vinclozolin
Reversed-phase HPLC of pesticides. VII. Analysis of Vinclozolin, Iprodione, Procymidone, Dichlozolinate and their degradation product 3,5-dichloroaniline on white must and wine extracts 256(1983)176

γ-Vinyl-γ-aminobutyric acid
Determination of the *R*(-)- and *S*(+)-enantiomers of γ-vinyl-γ-aminobutyric acid in human body fluids by GC-MS 274(1983)103

Viomellein
HPLC separation of xanthomegnin and viomellein 268(1983)461

Virus proteins
Reversed-phase HPLC of virus proteins and other large hydrophobic proteins in formic acid containing solvents 252(1982)241

Vitamin A
Determination of all-*trans*- and 13-*cis*-retinoic acids by two-phase, two-dimensional TLC in creams and by HPTLC in gel formulations 258(1983)314

Effect of 2-alkanols on the separation of geometric isomers of retinol in non-aqueous HPLC 260(1983)129

HPLC of the provitamin A β-carotene in plasma 273(1983)410

Vitamin B
Quantitative determination of myo-inositol in pharmaceutical preparations and organic extracts by HPLC using fluorescence 257(1983)405

Vitamin B_6
Post-column derivatization of vitamin B_6 using 2,6-dibromoquinone-4-chlorimide 267(1983)414

Vitamin C
Simultaneous analysis of ascorbic acid and dehydroascorbic acid in fruit and vegetables by HPLC 256(1983)368

HPLC of the bis(dinitrophenyl)hydrazone derivative of ascorbic acid, applied to analysis of ascorbic acid in beer 261(1983)176

Vitamin D
HPLC determination of 24,25-dihydroxyvitamin D_3 in serum 275(1983)418

Vitamin D_2
HPLC of fat-soluble vitamins. Simultaneous quantitative analysis of vitamins D_2, D_3 and E. Study of percentage Recoveries of vitamins from cod liver oil 256(1983)93

Vitamin D_3
HPLC of fat-soluble vitamins. Simultaneous quantitative analysis of vitamins D_2, D_3 and E. Study of percentage Recoveries of vitamins from cod liver oil 256(1983)93

Separation of the hydroxylated metabolites of vitamin D_3 by HPTLC 262(1983)460

Vitamin E
HPLC of fat-soluble vitamins. Simultaneous quantitative analysis of vitamins D_2, D_3 and E. Study of percentage Recoveries of vitamins from cod liver oil 256(1983)93

Vitamin U
GLC and column LC for studying vitamin U metabolism in humans and animals 273(1983)192

Volatile acids
see also Essential oils

Volatile oils
Quantitative determination of a mixture of extracts of drugs from volatile oils by HPLC (in German) 262(1983)285

VULM 120
Some quantitative aspects of UV detection in capillary isotachophoresis as applied to bioavailability studies 273(1983)228

W

Warfarin
Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. I. Fluorescence detection using post-column techniques 270(1983)267

Determination of coumarin anticoagulant rodenticide residues in animal tissue by HPLC. II. Fluorescence detection using ion-pair chromatography 270(1983)277

Water
Trace water analysis in gases using reaction GC 258(1983)233

Influence of water in LSC systems on retention data. I. Adsorption isotherms of the interface of class N solvents and silica gels 262(1983)1

Hydrocarbon and water quenching of the flame photometric detector response 270(1983)145

Water pollution
Modified stripping technique for the analysis of trace organics in water 252(1982)139

Waxes
Characterization of hydrocarbon waxes by GLC with a high-resolution glass capillary column 260(1983)391

X

Xanthine
Simultaneous determination of plasma and urinary uric acid, xanthine, hypoxanthine, allopurinol, oxipurinol, orotic acid, orotidine and creatinine by HPLC 274(1983)75

Xanthomegnin
HPLC separation of xanthomegnin and viomellein 268(1983)461

Xanthophyll fatty acid esters
MS identification of xanthophyll fatty acid esters from marigold flowers (*Tagetes erecta*) obtained by HPLC and Craig counter-current distribution 262(1983)277

Xanthosine
Isotachophoretic analyses of anions at high pH 260(1983)471

***o*-Xylene**
Interference effects in trapping trace components from gases on chromatographic sorbents. Sorption of benzene in the presence of *o*-xylene 265(1983)215

Xylenes
β-Cyclodextrin as a selective agent for the separation of *o*-, *m*- and *p*-xylene and ethylbenzene mixtures in GLC 261(1983)357

Xylenol
Supercooled liquid crystal GC separation of the 2,4- and 2,5-xylyloxy isomers of gemfibrozil and xylenol 264(1983)287

Xylose
HPLC of sugar mixtures containing xylose and arabinose on primary amino-bonded phases 253(1982)49

Complete separation and quantification of neutral sugars from plant cell walls and mucilages by HPLC 256(1983)157

Separation and determination of neutral monosaccharides using methanolysis and HPLC 259(1983)334

Y

Yeast mating hormone
Purification of synthetic analogues of yeast mating hormone by reversed-phase chromatography 256(1983)117

YM-09538
Determination of the α,β-adrenoceptor blocker YM-09538 in urine by GC with a nitrogen-sensitive detector 275(1983)81

Yuzu oil
Glass capillary GC analysis of oil components extracted from Yuzu (*Citrus junos*) juice 268(1983)336

Z

Zeolites
GC adsorption-desorption techniques for measuring acid strength distribution on solid catalysts 268(1983)207

Zirconium
Zirconium isotope separation by means of cation-exchange chromatography 259(1983)480

Zirconium compounds
HPLC of bis(η^5-1,2,3,4,5-pentamethylcyclopentadienyl)-titanium, zirconium and hafnium dichlorides 269(1983)11

Zoapatle
Determination of grandiflorenic acid in organic and aqueous extracts of *Montanoa tomentosa* (zoapatle) by reversed-phase HPLC 258(1983)297

Zomepirac
Reversed-phase HPLC assay for zomepirac in urine 272(1983)210

HPLC assay for zomepirac and its main metabolite in urine 275(1983)217

Zona pellucida components
Separation of porcine zona pellucida components by HPLC on styro-gel protein columns 275(1983)423

Zone area
Some quantitative aspects of UV detection in capillary isotachophoresis as applied to bioavailability studies 273(1983)228

Zone existence diagram
Zone order in isotachophoresis. The concept of the zone existence diagram and its use in cationic systems 267(1983)49

NOW AVAILABLE... COMPLETELY REVISED...

Instrumental Liquid Chromatography

A Practical Manual on High-Performance Liquid Chromatographic Methods

Second, completely revised edition

by N.A. PARRIS, *E.I. du Pont de Nemours & Company, Biomedical Products Department, Research and Development Division, Experimental Station Laboratory, Wilmington, DE, USA*

Journal of Chromatography Library 27

This new, extensively revised and up-dated book is a necessary acquisition for the HPLC user in the laboratory. It first appeared in 1976, was twice reprinted and was described in *Laboratory Practice* as *"one of the more useful and successful texts on HPLC. . . a most readable book packed with valuable information and advice. . . strongly recommended."*

It is a practically oriented, easy-to-follow guide containing the minimum essential theoretical background. The majority of the material is based on practical experience and highlights details which may have important operational value for laboratory workers. It helps the HPLC user to select the most appropriate instrumentation, injectors, columns, etc. Applications of liquid chromatography are described with reference to the potential of the technique for qualitative, quantitative and trace analysis as well as for the preparative application. Numerous applications from the literature are tabulated and cross-referenced to sections concerned with the optimization procedures of the particular methods. The format of the original edition proved so successful that it has remained unchanged. However, some 45% of the material is either new or completely revised in order to bring the column technology and applications data up-to-date.

Written primarily for workers currently involved with the application or the development of LC methods, it will also be of great value to those trying to establish whether methods for their particular interests have been reported or are feasible.

CONTENTS: **Fundamentals and Instrumentation.** 1. Introduction and historical background. 2. Basic principles and terminology. 3. The chromatographic support and column. 4. Liquid chromatographic instrumentation. 5. Liquid chromatographic detection systems. 6. Modern electronic technology and its impact on LC automation. **Factors Influencing Chromatographic Selectivity.** 7. Nature of the mobile phase. 8. Liquid-solid (adsorption) chromatography. 9. Liquid-liquid (partition) chromatography. 10. Bonded-phase chromatography. 11. Ion-exchange and ion-pair chromatography. 12. Steric exclusion chromatography. **Uses of Liquid Chromatographic Procedures.** 13. Qualitative analysis. 14. Quantitative analysis. 15. Practical aspects of trace analysis. 16. Practical aspects of preparative liquid chromatography. **Applications of Liquid Chromatography.** 17. Published LC applications. Appendices. List of abbreviations and symbols. Subject index.

1984 xiv + 432 pages
US$ 86.50 (USA & Canada) Dfl. 225.00 (Elsewhere)
ISBN 0-444-42061-4

ELSEVIER

P.O. Box 211, 1000 AE Amsterdam
The Netherlands

P.O. Box 1663, Grand Central Station
New York, NY 10163, USA

7292

NEW! THEORY, PRACTICE AND APPLICATIONS...

Microcolumn High-Performance Liquid Chromatography

P. KUCERA, *Pharmaceutical Research Products Section, Hoffmann-La Roche Inc., Nutley, NJ, USA (editor)*

(Journal of Chromatography Library 28)

Written by experts in this dynamic, rapidly moving field of chromatography, this is the only book currently available that treats the large and diverse subject of microcolumn chromatographic techniques in such a way as to satisfy both the practical and the theoretical needs of analytical chemists and chromatographers.

The distinguished research workers and university professors who have contributed to this important work have adopted a textbook-type approach to the discussion of the theoretical aspects of new microcolumn techniques. The practical coverage includes instrumentation, design, columns, detectors, injectors, connecting tubing, gradient elution and special analytical techniques, LC-MS, derivatization, etc., and applications are described using various compounds (e.g. drugs, substances of biological origin, proteins, nucleotides, industrial extracts).

The book represents a vast amount of information collected over a period of many years of intensive work and is an essential acquisition for all those who need to keep up-to-date with the latest developments in microcolumn techniques.

Contents: Chapter 1. Narrow-Bore and Micro-Bore Columns in Liquid Chromatography *(G. Guiochon, H. Colin)*. 2. Design of a Microbore Column Liquid Chromatograph *(P. Kucera)*. 3. Theory and Practice of High-Speed Microbore HPLC *(R.A. Hartwick, D.D. Dezaro)*. 4. Special Analytical Techniques *(P. Kucera, G. Manius)*. 5. Chemical Derivatization Techniques Using Microcolumns *(P. Kucera, H. Umagat)*. 6. Applications of Microbore HPLC *(P. Kucera, R.A. Hartwick)*. 7. Liquid Chromatography in Columns of Capillary Dimensions *(M. Novotny)*. 8. Micro LC/MS Coupling *(H. Henion)*. Subject Index.

1984 xvi + 302 pages
US $ 63.50/Dfl. 165.00
ISBN 0-444-42290-0

ELSEVIER

P.O. Box 211
1000 AE Amsterdam
The Netherlands

P.O. Box 1663
Grand Central Station
New York, NY 10163, USA

7293

A NEW TITLE IN DRUG RESEARCH...

STRATEGY IN DRUG RESEARCH

(Proceedings of the second IUPAC-IUPHAR Symposium held in Noordwijkerhout, The Netherlands, August 25-28, 1981)

edited by J.A. KEVERLING BUISMAN, *Weesp, The Netherlands*

PHARMACOCHEMISTRY LIBRARY, VOLUME 4

The research strategies discussed during this symposium are based on both chemical and biological findings. Results on the basis of receptor studies, theoretical considerations in enzyme mechanisms, toxicological and pharmacokinetic studies and molecular pharmacological investigations are covered. Much emphasis has been placed on the need for reliable biological parameters in all studies aimed at designing new molecules.

In addition to the full texts of the 17 lectures presented, this book also contains the 4 lectures presented at a "satellite symposium" on **"The Value of Predictions in Structure-Activity Analysis."** Successes, failures and ways to determine the Quantitative Structure-Activity Relationships are described.

CONTENTS: Drugs for developing countries *(A.O. Lucas)*. The benzodiazepine receptor and its ligands *(H. Möhler)*. The probing and the mode of action of β- and α_2- adrenergic receptors *(A. Levitzki)*. Clonidine-N=C=S, an affinity label for α_2-adrenergic receptors on human platelets and rat brain *(D. Atlas, M.L. Steer and Y. Plotek)*. The strategy of the development of peptide drugs *(F.J. Zeelen)*. Enzymes as tools and targets in drug research *(T.A. Krenitsky and G.B. Elion)*. Substrate-induced irreversible inhibition of enzymes in drug research *(P. Bey, B. Metcalf, M.J. Jung, J. Fozard and J. Koch-Weser)*. Selective inhibition of B type monoamine oxidase in the brain: a drug strategy to improve the quality of life in senescence *(J. Knoll)*. Soft drugs: strategies for design of safer drugs *(N. Bodor)*. Optimalization of pharmacokinetics – an essential aspect of drug development – by "metabolic stabilization" *(E.J. Ariëns and A.M. Simonis)*. Structure-pharmacokinetics relationships in drug design *(J.K. Seydel)*. Drug biotransformation as a source of drug development *(H. Oelschläger)*. The quantitative measurement of biological effects *(P.J. Goodford)*. Quantitative comparisons in cardiovascular pharmacology: characterization of α-adrenoceptor populations *(P.B.M.W.M. Timmermans, A. de Jonge and P.A. van Zwieten)*. Examples of the role of computers in new compound design in a pharmaceutical company *(Y.C. Martin)*. Computer-assisted drug design. Strategy and algorithms *(A.B. Rozenblit)*. Strategy in drug research – summing up *(E.J. Ariëns)*. **The Value of Predictions in Structure-Activity Analysis: Proceedings of the Satellite Symposium on QSAR.** The predictive merits of antihistamine-QSAR studies *(R.F. Rekker)*. Exceptions in quantitative structure-activity relationships (QSAR), possible reasons *(J.K. Seydel and K.J. Schaper)*. Some prerequisites and techniques to make QSARs predictive *(R. Franke)*. Some aspects of a QSAR analysis of Trimethoprim analogues. *(R.M. Hyde and B. Roth)*. General (round table) discussion: "Perspectives in QSAR". List of symbols used in QSAR publications. Subject Index.

1982 viii + 420 pages
Price: US $ 70.25/Dfl. 165.00
ISBN 0-444-42053-3

ELSEVIER

P.O. Box 211,
1000 AE Amsterdam,
The Netherlands.

P.O. Box 1663,
Grand Central
Station,
New York, NY 10163.

The Dutch guilder price is definitive. US $ prices are subject to exchange rate fluctuations.

7224B

DRUGS OF ABUSE

by LAWRENCE FISHBEIN, *National Center for Toxicological Research, Jefferson, AR, and University of Arkansas for Medical Sciences, Little Rock, AR, U.S.A.*

CHROMATOGRAPHY OF ENVIRONMENTAL HAZARDS VOLUME 4

The main objective of this volume is to provide the analytical and clinical chemist, as well as the forensic toxicologist, with a practical text which is also a literature reference source, of selected descriptive chromatographic procedures that stress the separation, detection and quantification of a spectrum of drugs of abuse, e.g. depressants, narcotics and analgesics, stimulants and hallucinogens, from biological, licit and illicit samples. The principal methods are thin-layer chromatography, gas-liquid chromatography, gas-liquid chromatography-mass spectrometry and high performance liquid chromatography. The procedures described are those which are primarily useful in therapeutic monitoring and pharmacokinetic studies, emergency, clinical, forensic and toxicological analyses and in monitoring in drug abuse screening programs.

Relevant information has been included, where available, regarding the synthesis or isolation from natural sources, the salient chemical, biological and physical properties, as well as the pharmacology, metabolism, pharmacokinetics, disposition and toxicity of the abused drugs. This information is important to investigators in diverse disciplines including biochemistry, clinical chemistry and medicine, pharmacology, toxicology, public health, and others such as clinicians and drug counselors who are all equally concerned with detecting, ameliorating, managing or eliminating the effects of this social and environmental hazard.

CONTENTS: Chapters 1. Introduction. **Part 1. Depressants (including Sedatives, Tranquillizers and Hypnotics).** 2. Alcohol. 3. Barbiturates. 4. Benzodiazepine Antianxiety Agents. 5. Phenothiazines. 6. Ethchlorvynol. 7. Carbamates and Ureides. 8. Antihistaminics. 9. Methaqualone. **Part. 2. Narcotics and Analgesics.** 10. Opium Alkaloids - Morphine and Codeine. 11. Heroin. 12. Methadone and alpha-Acetylmethadol. 13. Salicylates. 14. Phenacetin and Acetaminophen. 15. Propoxyphene. 16. Meperidine. **Part 3. Stimulants.** 17. Amphetamine and Methamphetamine. 18. Cocaine. 19. Tricyclic Antidepressants. 20. Methylphenidate and Phenmetrazine. **Part. 4. Hallucinogenic Agents (including Psychotogenic, Psychotomimetic and Psychedelic Drugs).** 21. Marihuana, Cannabis Constituents and Hashish. 22. Psilocin, Psilocybin, Peyote and Mescaline. 23. LSD. 24. Mono- and Dimethoxyamphetamines and 3,4-Methylenedioxyamphetamine. 25. Phencyclidine. 26. Ketamine. **Subject Index.**

All chapters are followed by copious references.

1982 x + 490 pages
US $ 106.50/Dfl. 250.00
ISBN 0-444-42024-x

Chromatography of Environmental Hazards

Vol. 3
Pesticides

1975 xvi + 820 pages
US$ 134.00/Dfl. 315.00
ISBN 0-444-41158-5

"...very useful and the sheer amount of information between these covers is a monument to the energy and enthusiasm of the author".

Pans

Vol. 2
Metals, Gaseous and Industrial Pollutants

1973 xii + 637 pages
US $ 117.00/Dfl. 275.00
ISBN 0-444-41059-7

"The author has accomplished a monumental task in compiling so much data within a 600-page volume ... the book is a worthy addition to the library of the researcher actively involved in this very complex area of chemical analysis."

Journal of Chromatography

Vol. 1
Carcinogens, Mutagens and Teratogens
1972 1st Repr. 1983
vii + 500 pages
US $ 95.75/Dfl. 225.00
ISBN 0-444-40948-3

ELSEVIER

P.O. Box 211,
1000 AE Amsterdam,
The Netherlands.

P.O. Box 1663,
Grand Central Station,
New York, NY 10163.

The Dutch guilder price is definitive. US $ prices are valid in USA and Canada only.